To All State Legislators:

3/24/16

I am writing to you on behalf of the physicians of the Family Medicine Department at Alaska Regional Hospital as well as our call group of 14 Family Physicians in Anchorage. Please oppose SB74 (HB344) which passed the Senate March 11, 2016. SB74 unnecessarily increases regulatory burdens on all providers and pharmacists by requiring database entry of controlled medications like testosterone, cough syrups, and medications for weight loss, ADD/ADHD, seizures, sleep, anxiety, and pain control (which are all schedule 2,3,4 substances), before prescribing them to children and adults. This bill causes an unnecessary waste of time (close to an hour a day) for primary care providers who already know what medications their patients are taking. There are 26 medications on this list which are prescribed regularly by primary care. This bill increases government involvement in personal health care, and is an invasion of health privacy for children and adults to be listed on a controlled substance registry for non-narcotic or limited time medications.

SB74 dramatically increases medical care costs to patients. Providers will have to spend time doing this data entry as staff will not know about medications that are listed, and incorrectly entering data could be a liability for the provider and negatively impact patients. This legislation interferes with a provider's ability to prescribe medications in a timely manner to patients, and takes providers away from patients by forcing them to do unnecessary burdensome paperwork. This controlled substance database has a potential to be abused by government or other officials, who will now have access to this list, as it could cause restriction of jobs, gun ownership, future military careers for children, and other potentially negative impacts on people's lives.

 * Sec. 18. AS 17.30.200(k) is amended to read: (k) In the regulations adopted under this section, the board shall provide

(4) that a pharmacist or practitioner review the information in the database to check a patient's prescription records before dispensing, prescribing, or administering a controlled substance to the patient;

This bill eliminates the need for physicians to be in state for telemedicine, which may result in substandard care by not requiring providers to do physical exams on patients. These telemedicine physicians will not have the comprehensive records we have on the patients which will result in lower quality of care and potentially serious drug interactions or other serious medical complications. This will dramatically lower the quality of medical care we have in our community, increase fragmentation of care, and result in more instances of malpractice claims and potentially dramatically increasing our liability as practitioners here in Alaska. It will also outsource jobs in a time when we need jobs here in Alaska. It also hinders the state medical board from disciplining providers of telemedicine, and so sets two different standards of care for providers.

The discriminatory clauses in this legislation allow for only Native Americans and Alaskan Natives to get their care paid for with 100% federal reimbursement at ANMC, which is ten times more than they pay private physicians to provide care for people on Medicaid. This also leaves the private providers subject to cuts by the state as they are paid 50% state and 50% federal dollars.

There is also concern about the potential for many unnecessary frivolous lawsuits due to the 15 to 25% recovery for so called Medicaid whistle blowers.

Please oppose SB74 (HB344). This bill will have unintended consequences including the closing of many primary care providers practices due to the provisions in this bill, lowering the quality of medical care, delays in care for patients, increasing regulatory costs, decreasing reimbursement for private providers, and many patients not getting medications they need because of fear of government databases.

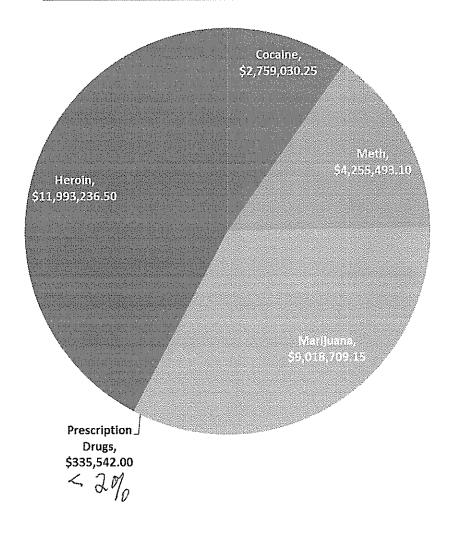
Sincerely yours,

Ilona Farr MD

Chairman Family Medicine Department Alaska Regional Hospital and Representative for 14 Private Practice Family Physicians in Anchorage

"Drugs of Choice": Total Street Value of Seizures (Local, State, and Federal Seizures)

Substance	Street Value*
Cocaine/Crack Cocaine	\$ 2,759,030.25
Methamphetamine	\$ 4,255,493.10
Heroin	\$ 11,993,236.50
Prescription Drugs	\$ 335,542.00
Marijuana	\$ 9,018,709.15



^{*}Geographic area street values are estimates only. Street value was determined by the Western States Information Network's Drug Price and Purity Guide 2013, or provided by the local agency. The street value of prescription medications can vary widely depending upon dosage strength. When street value could not be accurately determined, it was not included in this report.

Risk and Protective Factors for Substance Abuse and/or Mental Health Problems Among Alaska Native and Native American Populations

SAMHSA's Center for the Application of Prevention Technologies

Introduction and Purpose

substance abuse and/or mental health problems among Alaska Native and Native American populations. This document is an inventory of current studies organized at the protective factors relevant to the Alaska Native and Native American populations. individual, relationship, community and societal levels. The SEOW will use this information to inform the identification of state-wide data sources that measure risk and (SEOW). A subcommittee of the SEOW, referred to as the Influences Subcommittee, encountered a lack of readily available literature on risk and protective factors for This document is the result of a request from the State of Alaska's National Prevention Network representative on behalf of the State Epidemiology Outcomes Workgroup

Search Process

assessed the relationship between a range of risk and protective for substance abuse and/or mental health problems This document contains published, peer-reviewed studies from health and psychological databases, such as PUBMED and PSYCHINFO between 1989 and 2012. Studies

Key words and search strings used in the search:

"Alaskan Native," "American Indian," "Native American," "Substance abuse," "Substance abuse prevention," "Risk Factor," "Protective Factor"

Each search combined the following:

- "Native American" or "American Indian" with "Substance Use," "Alcohol Use," "Mental health," or "Suicide," "Protective," or "Risk," and each one of the following risk and protective factors:
- Individual: "Psychosocial," "Self-esteem," "Self-worth," "SES," "Education," "Housing," "Employment," "Spirituality," "Religion," "Health,"
- 0 Relationship: "Trauma," "Adversity," "Partner," "Family," "Social," "Peer," "Friend," "Abuse" "Sexual," "Violence," "Conflict," "Parent"
- Community: "Community," "School," "Reservation,"
- Society: "Historical loss," "Enculturation," "Culture," "Acculturation,"

		INDIVIDUAL	
		EMPLOYMENT	
		6 0 % A e e e e e e e e e e e e e e e e e e	
	Employment	Substance Abuse (SA) (IV drug use past 30 days; Needle sharing past 30 days; Crack cocaine past 30 day use)	Reynolds, G.L., Fisher, D.G., Estrada, A.L., & Trotter, R. (2000). Unemployment, drug use, and HIV risk among American Indian and Alaska Native drug users. <i>American Indian and Alaska Native Mental Health Research</i> , 9(1), 17-32.
Unemployment	v de la constant	SA (Heavy drinking; Alcohol abuse and/or dependence; Illicit drug abuse and/or dependence)	Herman-Stahl, M., Spencer, D.L., & Duncan, J.E. (2003). The implications of cultural orientation for substance use among American Indians. American Indian and Alaska Native Mental Health Research 11(1), 46-66.
	Family income supplements	Mental Health (MH) (Any psychiatric disorder)	Costello, E.J., Erkanli, A., Copeland, W., & Angold, A. (2010). Association of family income supplements in adolescence with development of psychiatric and substance use disorders in adulthood among an American Indian population. <i>Journal of the American Medical Association</i> , 303(19), 1954-1960.
Low social economic status of family members		SA (Alcohol abuse/dependence)	Yu, M., & Stiffman, A.R. (2007). Culture and environment as predictors of alcohol abuse/dependence symptoms in American Indian youths. <i>Addictive Behaviors</i> , 32, 2253-2259.
Financial strain		MH (Depression)	Whitbeck, L.B., Walls, M.L., Johnson, K.D., Morrisseau, A.D., & McDougall, C.M. (2009). Depressed affect and historical loss among North American indigenous adolescents. <i>American Indian and Alaska Mental Health Research</i> , <i>16</i> (3), 16-49.
Childhood financial strain		MH (Depression/dysthymia; PTSD; Panic/GAD)	Libby, A.M., Orton, H.D., Novins, D.K., Beals, J., & Manson, S.M. (2005). Childhood physical and sexual abuse and subsequent depressive and anxiety disorders for two American Indian tribes. <i>Psychological Medicine</i> , 35(3), 329-340.

		The state of the s	
HeavyRunner-Rioux, A.R., & Hollist, D.R. (2010). Community, family, and peer influence on alcohol, marijuana, and illicit drug use among a sample of Native American youth: An analysis of predictive factors. <i>Journal of Ethnicity in Substance Abuse</i> , <i>9</i> , 260-283.	SA (Lifetime and 30 day alcohol; Marijuana; Illicit drug use)	Pro-delinquency attitudes	Pro-delinqu
Pettingell, S.L., Bearinger, L.H., Skay, C.L., Resnick, M.D., Potthoff, S.J., & Eichhorn, J. (2008). Protecting urban American Indian young people from suicide. <i>American Journal of Health Behavior</i> , 32(5), 465-476.	MH (Suicide)	petration	Violent Perpetration
O'Connell, J.M., Novins, D.K., Beals, J., Whitesell, N., Libby, A.M., Orton, H.D., Al-SUPERPFT Team. (2007). Childhood characteristics associated with stage of substance use of American Indians: Family background, traumatic experiences, and childhood behaviors. <i>Addictive Behaviors</i> , 32(12), 3142-3152.	SA (High stage substance use: illicit drug use, with or without marijuana, alcohol and inhalants.)	oblems	Conduct problems
Whitbeck, L.B., Hoyt, D.R., McMorris, B.J., Chen, X., & Stuben, J.D. (2001). Perceived discrimination and early substance abuse among American Indian children. <i>Journal of Health and Social Behavior</i> , 42(4), 405-424.	SA (Early onset SA)	behavior	Delinquent behavior
HeavyRunner-Rioux, A.R., & Hollist, D.R. (2010). Community, family, and peer influence on alcohol, marijuana, and illicit drug use among a sample of Native American youth: An analysis of predictive factors. <i>Journal of Ethnicity in Substance Abuse</i> , <i>9</i> , 260-283.	SA (Lifetime and 30 day alcohol; Marijuana; Illicit drug use)		Impulsivity
	PSYCHOSOCIAL ISSUES		
HeavyRunner-Rioux, A.R., & Hollist, D.R. (2010). Community, family, and peer influence on alcohol, marijuana, and illicit drug use among a sample of Native American youth: An analysis of predictive factors. <i>Journal of Ethnicity in Substance Abuse</i> , <i>9</i> , 260-283.	SA (Lifetime and 30 day alcohol use)	Parental education	
Herman-Stahl, M., Spencer, D.L., & Duncan, J.E. (2003). The implications of cultural orientation for substance use among American Indians. American Indian and Alaska Native Mental Health Research 11(1), 46-66.	SA (Heavy drinking)	Less than high school or high school education	Less than high school high school education
	EDUCATION		Total and

Yu, M., & Stiffman, A.R. (2007). Culture and environment as predictors of alcohol abuse/dependence symptoms in American Indian youths. <i>Addictive Behaviors</i> , 32, 2253-2259.	SA (Alcohol abuse/dependence)	Cultural pride/spirituality	
Kulis, S., Hodge, D.R., Ayers, S.L., Brown, E.F., & Marsiglia, F.F. (2012). Spirituality and religion: Intertwined protective factors for substance use among urban American Indian youth. <i>The American Journal of Drug and Alcohol Abuse</i> , 38(5), 444-449.	SA (Alcohol and cigarette use)	Stronger Christian beliefs	
Kulis, S., Hodge, D.R., Ayers, S.L., Brown, E.F., & Marsiglia, F.F. (2012). Spirituality and religion: Intertwined protective factors for substance use among urban American Indian youth. <i>The American Journal of Drug and Alcohol Abuse</i> , 38(5), 444-449.	SA (Alcohol, cigarette and marijuana use)	Belonging to the Native American church	
Yu, M. & Stiffman, A.R. (2007). Culture and environment as predictors of alcohol abuse/dependence symptoms in American Indian youths. <i>Addictive Behaviors</i> , 32, 2253-2259.	SA (Alcohol abuse/dependence)	Involvement in a religious group or church	
Yoder, K.A., Whitbeck, L.B., Hoyt, D.R., & LaFromboise, T. (2006). Suicidal ideation among American Indian youths. <i>Archives of Suicide Research</i> , <i>10</i> , 177-190.	MH (Suicide ideation) Spiritual TY/Religion	High Self-esteem	
Radin, S.M., Neighbors, C., Walker, P.S., Walker, R.D., Marlatt, G.A., & Larimer, M. (2006). The changing influences of self-worth and peer deviance on drinking problems in urban American Indian adolescents. <i>Psychology of Addictive Behaviors</i> , 20(2), 161-170.	SA (Alcohol related problems)	To the state of th	Low self-worth
Chino, M., & Fullerton-Gleason, L. (2006). Understanding suicide attempts among American Indian adolescents in New Mexico: Modifiable factors related to risk and resiliency. <i>Ethnicity and Disease</i> , 16, 435-442.	MH (Suicide attempts)		Feeling life has no purpose
Pettingell, S.L., Bearinger, L.H., Skay, C.L., Resnick, M.D., Potthoff, S.J., & Eichhorn, J. (2008). Protecting urban American Indian young people from suicide. <i>American Journal of Health Behavior</i> , 32(5), 465-476.	MH (Suicide attempts)	Positive mood	
Whitbeck, L.B., Hoyt, D.R., McMorris, B.J., Chen, X., & Stuben, J.D. (2001). Perceived discrimination and early substance abuse among American Indian children. <i>Journal of Health and Social Behavior</i> , 42(4), 405-424.	Early onset SA (Not specified)		Angry feelings
	PSYCHOSOCIAL ISSUES, CONT.		

Suicide attempts among American Indian and Alaska Native youth: Risk and protective factors. Archives of Pediatric & Adolescent Medicine, 153, 573-580.	mi (outside auceriptes)		College live appear access
Borowsky I W Resnick M.D. Ireland M. & Blum R.W (1999)	MH (Snicide attempts)		Concerned about health
depressive and anxiety disorders for two American Indian tribes. Psychological Medicine, 35(3), 329-340.	MH (PTSD)		
(2005). Childhood physical and sexual abuse and subsequent	mi (achiconomo)onjimaj		Engineere on one micro
Tisher AM Office III North Division DV Doole I 8 Manager CM		CONTROL CONTRO	Disappood obtanto illanos
suicide attempters. American Indian and Alaska Native Mental			
A population-based comparison of native and non-native youth			
Mackin, J., Perkins, T., & Furrer, C. (2012). The power of protection:	MH (Suicide attempts)	Good physical health	
suicide attempts among Navajo adolescents. <i>American Journal of Public Health</i> , 81(7), 870-874).		And the state of t	general nealth
Grossman, D.C., Milligan, C., & Deyo, R.A. (1991). Risk factors for	MH (Suicide attempts)		Self-perception of poor
	HEALTH		
Beebe, L.A., Vesely, S.K., Oman, R.F., Tolma, E., Aspy, C.E., & Rodine, S. (2008). Protective assets for non-use of alcohol, tobacco, and other drugs among urban American Indian youth in Oklahoma. Maternal and Child Health Journal, 12, S82-S90.	SA (Alcohol use in the past 30 days)	Use of time for religion	
Social Science and Medicine, 56, 1571-1579.		ollentation	
Garroutte, E.M., Goldberg, J., Beals, J., Herrell, R., Manson, S.P.	MH (Suicide attempts)	Cultural spiritual	
Charles Sauge	Sideonie		
ONT.	SPIRITUALITY/RELIGION, CONT		

	RELATIONSHIPS	
	ADVERSE CHILDHOOD EXPERIENCES AND OTHER TRAUMATIC	TRAUMATIC EVENTS
	CONTRACTOR SHOWING	For the state of t
Child abuse (Physical and sexual abuse)	MH (Suicide attempts)	Mackin, J., Perkins, T., & Furrer, C. (2012). The power of protection: A population-based comparison of native and non-native youth suicide attempters. American Indian and Alaska Native Mental Health Research, 19(2), 20-54.
Childhood sexual abuse	MH, (3 or more psychiatric disorders, including and not including alcohol dependence and abuse)	Robin, R.W., Chester, B., Rasmussen, J.K., Jaranson, J.M., & Goldman, D. (1997). Prevalence, characteristics, and impact of childhood sexual abuse in a southwestern American Indian tribe. <i>Child Abuse & Neglect</i> , 21(8), 769-787.
Child abuse	SA (Not specified)	Bohn, D.K. (2003). Lifetime physical and sexual abuse, substance abuse, depression, and suicide attempts among Native American women. <i>Issues in Mental Health Nursing</i> , 24, 333-352.
Trauma (non- interpersonal, interpersonal, witnessed, traumatic news, and other trauma)	SA (Alcohol use disorder)	Boyd-Ball, A.J., Manson, S.M., Noonan, C., & Beals, J. (2006). Traumatic events and alcohol use disorders among American Indian adolescents and young adults. <i>Journal of Traumatic Stress</i> , 19(6), 937-947.
Childhood physical abuse	MH (Depression/dysthymia PTSD; Panic/GAD)	Libby, A.M., Orton, H.D., Novins, D.K., Beals, J., & Manson, S.M. (2005). Childhood physical and sexual abuse and subsequent depressive and anxiety disorders for two American Indian tribes.
Childhood Physical abuse and Childhood Sexual abuse	SA (Alcohol dependence, alcohol abuse)	Clark, D.B. Lesnick, L., & Hegedus, A.M. (1997). Traumas and other adverse life events in adolescents with alcohol abuse and dependence. Journal of the American Academy of Child and Adolescent Psychiatry, 36(12), 1744-1751.
Childhood trauma (physical and sexual abuse)	MH (Suicide attempts)	Borowsky, I.W., Resnick, M.D., Ireland, M., & Blum, R.W. (1999). Suicide attempts among American Indian and Alaska Native youth: Risk and protective factors. <i>Archives of Pediatric & Adolescent Medicine</i> , <i>153</i> , 573-580.
Child abuse (physical abuse and sexual abuse)	MH (Suicide attempts)	Grossman, D.C., Milligan, C., & Deyo, R.A. (1991). Risk factors for suicide attempts among Navajo adolescents. <i>American Journal of Public Health</i> , 81(7), 870-874.

SA (Illicit drug use/dependence) Es: SA (Alcohol dependence) are SA (Alcohol dependence) SA (Lifetime alcohol use) SA (Alcohol abuse/dependence) MH (Depression/dysthymia)	Libby, A.M., Orton, H.D., Novins, D.K., Beals, J., & Manson, S.M. (2005). Childhood physical and sexual abuse and subsequent depressive and anxiety disorders for two American Indian tribes. <i>Psychological Medicine</i> , 35(3), 329-340.	MH (Depression, Post Traumatic Stress Syndrome) PTSD:	Maternal depression
SA (Illicit drug use/dependence) SA (Alcohol dependence) Es: BA (Alcohol dependence) SA (Alcohol dependence) SA (Lifetime alcohol use) SA (Alcohol abuse/dependence)	Libby, A.M., Orton, H.D., Novins, D.K., Beals, J., & Manson, S.M. (2005). Childhood physical and sexual abuse and subsequent depressive and anxiety disorders for two American Indian tribes. <i>Psychological Medicine</i> , 35(3), 329-340.	MH (Depression/dysthymia)	Maternal alcohol problem
use (physical nd sexual abuse) SA (Illicit drug use/dependence) sod: physical sexual abuse, out; physical sexual abuse, neglect, all abuse, school nce, foster care nrt, parental abuse (before sof age) SA (Alcohol dependence) SA (Alcohol dependence) SA (Alcohol dependence) SA (Lifetime alcohol use)	Yu, M., & Stiffman, A.R. (2007). Culture and environment as predictors of alcohol abuse/dependence symptoms in American Indian youths. <i>Addictive Behaviors</i> , 32, 2253-2259.	SA (Alcohol abuse/dependence)	Family members' substance problems
SA (Illicit drug use/dependence) SA (Alcohol dependence) SA (Alcohol dependence) SA (Alcohol dependence)	O'Connell, J.M., Novins, D.K., Beals, J., Whitesell, N., Libby, A.M., Orton, H.D., Al-SUPERPFT Team. (2007). Childhood characteristics associated with stage of substance use of American Indians: Family background, traumatic experiences, and childhood behaviors. <i>Addictive Behaviors</i> , 32(12), 3142-3152.	SA (Lifetime alcohol use)	Parent drug or alcohol problem
/sical /s	Kunitz, S.J., Levy, J.E., McCloskey, J., & Gabriel, K.R. (1998). Alcohol dependence and domestic violence as sequelae of abuse and conduct disorder in childhood. <i>Child Abuse & Neglect</i> , 22(11), 1079-1091.	SA (Alcohol dependence)	Physical abuse (before 15 years of age)
SA (Illicit drug use/dependence)	Koss, M.P., Yuan, N.P., Dightman, D., Prince, R.J., Polacca, M., Sanderson, B., & Goldman, D. (2003). Adverse childhood exposures and alcohol dependence among seven Native American tribes. <i>American Journal Preventive Medicine</i> , 25(3), 238-244.	SA (Alcohol dependence)	Individual ACEs and Total number of ACEs: (Childhood: physical abuse, sexual abuse, physical neglect, emotional neglect, emotional abuse, boarding school attendance, foster care placement, parental alcoholism)
	Yu, M., & Stiffman, A.R. (2010). Positive family relationships and religious affiliation as mediators between negative environment and illicit drug symptoms in American Indian adolescents. <i>Addictive Behaviors</i> , 35, 694-699.	SA (Illicit drug use/dependence)	Child abuse (physical abuse and sexual abuse)

LeMaster, P.M., Connell, C.M., Mitchell, C.M., & Manson, S.M. (2002). Tobacco use among American Indian adolescents: Protective and risk factors. <i>Journal of Adolescent Health</i> , 30, 426-432.	SA (Current cigarette and smokeless tobacco use)	Death/loss
Manson, S.M., Beals, J., Dick, R.W., & Duclos, C. (1989). Risk factors for suicide among Indian adolescents at a boarding school. <i>Public Health Reports, 104</i> (6), 609-614.	MH (Attempted suicide; Current suicidality)	Experienced the death of a friend
Borowsky, I.W., Resnick, M.D., Ireland, M., & Blum, R.W. (1999). Suicide attempts among American Indian and Alaska Native youth: Risk and protective factors. <i>Archives of Pediatric & Adolescent Medicine</i> , 153, 573-580.	MH (Suicide attempts)	Friend attempted or completed suicide
Manson, S.M., Beals, J., Dick, R.W., & Duclos, C. (1989). Risk factors for suicide among Indian adolescents at a boarding school. <i>Public Health Reports, 104</i> (6), 609-614.	MH (Attempted suicide; Current suicidality)	Friend attempted suicide
Grossman, D.C., Milligan, C., & Deyo, R.A. (1991). Risk factors for suicide attempts among Navajo adolescents. <i>American Journal of Public Health</i> , 81(7), 870-874.	MH (Suicide attempts)	Friend attempted suicide
Grossman, D.C., Milligan, C., & Deyo, R.A. (1991). Risk factors for suicide attempts among Navajo adolescents. <i>American Journal of Public Health</i> , 81(7), 870-874.	MH (Suicide attempts)	Family member suicide attempt or completion
Manson, S.M., Beals, J., Dick, R.W., & Duclos, C. (1989). Risk factors for suicide among Indian adolescents at a boarding school. <i>Public Health Reports</i> , <i>104</i> (6), 609-614.	MH (Attempted suicide; Current suicidality)	Family member attempted suicide
Yu, M., Stiffman, A.R. & Freedenthal, S. (2005). Factors affecting American Indian adolescent tobacco use. <i>Addictive Behaviors</i> , <i>30</i> , 889-904.	SA (Youth tobacco use)	Family members with mental health problems
Yu, M., & Stiffman, A.R. (2010). Positive family relationships and religious affiliation as mediators between negative environment and illicit drug symptoms in American Indian adolescents. <i>Addictive Behaviors</i> , 35, 694-699.	SA (Illicit drug use/dependence)	Addicted family members
Libby, A.M., Orton, H.D., Novins, D.K., Beals, J., & Manson, S.M. (2005). Childhood physical and sexual abuse and subsequent depressive and anxiety disorders for two American Indian tribes. <i>Psychological Medicine</i> , 35(3), 329-340.	MH: (Depression)	Father depression
NUMATIC EVENTS, CONT. CHARGE SUBJECT	Adverse Childhood Experiences and Other Traumatic Eve	ADVEI

Chino, M., & Fullerton-Gleason, L. (2006). Understanding suicide attempts among American Indian adolescents in New Mexico: Modifiable fortees related to side and positionary. Etherical Discount 16, 135, 113, 113, 113, 113, 113, 113, 113	MH (Suicide attempts)	Being a victim of physical violence at home
Libby, A.M., Orton, H.D., Novins, D.K., Beals, J., & Manson, S.M. (2005). Childhood physical and sexual abuse and subsequent depressive and anxiety disorders for two American Indian tribes. Psychological Medicine, 35(3), 329-340.	MH (Depression/dysthymia)	Paternal violence problems
Clark, D.B. Lesnick, L., & Hegedus, A.M. (1997). Traumas and other adverse life events in adolescents with alcohol abuse and dependence. <i>Journal of the American Academy of Child and Adolescent Psychiatry</i> , 36(12), 1744-1751.	SA (Alcohol dependence; Alcohol abuse)	Violent victimization (in childhood)
Spicer, P., Novins, D., Mitchell, C.M., & Beals, J. (2003). Aboriginal social organization, contemporary experience and American Indian adolescent alcohol use. <i>Journal of Studies on Alcohol and Drugs</i> , 64, 450-457.	SA (Quantity-frequency of alcohol use past month): Greatest and usual number of drinks; number of days drinking and drunk; episodes of drinking 2 days or more	Significant life event (Scale include ACEs and other stressful life events)
Yoder, K.A., Whitbeck, L.B., Hoyt, D.R., & LaFromboise, T. (2006). Suicidal ideation among American Indian youths. <i>Archives of Suicide Research</i> , <i>10</i> , 177-190.	MH (Suicide Ideation)	Negative life event(Scale included ACEs and other stressful life events)
LeMaster, P.M., Connell, C.M., Mitchell, C.M., & Manson, S.M. (2002). Tobacco use among American Indian adolescents: Protective and risk factors. <i>Journal of Adolescent Health</i> , 30, 426-432.	SA (Current cigarette use)	Stressful life events (Scale included ACEs and other stressful life events)
Baldwin, J.A., Brown, B.G., Wayment, H.A., Nez, R.A., Brelsford, K.A. (2011). The Role of Culture and Context: Buffering the Relationship Between Stressful Life Events and Risky Behaviors in American Indian Youth. Substance Use & Misuse, 46, 1380-1394.	MH (Depressed mood) SA (Substance use, not specified)	Stressful life event past year (Scale included ACEs and other stressful life events)
O'Connell, J.M., Novins, D.K., Beals, J., Whitesell, N., Libby, A.M., Orton, H.D., Al-SUPERPFT Team. (2007). Childhood characteristics associated with stage of substance use of American Indians: Family background, traumatic experiences, and childhood behaviors. Addictive Behaviors, 32(12), 3142-3152.	SA (Medium stage substance use: Lifetime marijuana or inhalant use, without alcohol)	Witnessed family violence or other traumatic event
Whitesell, N.R., Beals, J., Mitchell, C.M., Manson, S.M., Turner, R.J., & the AI-SUPERPFP TEAM. (2009). Childhood exposure to adversity and risk of substance-use disorder in two American Indian populations: The meditational role of early substance use initiation. <i>Journal of Studies on Alcohol and Drugs</i> , 70, 971-981.	SA (Early alcohol use; Substance use disorder)	Adversity (trauma, witnessed violence, major childhood event)

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against hopelessness and suicidality in sexually abused American		adolescent's feelings
Pharris, M.D., Resnick, M.D., & Blum, R.W. (1997). Protecting	MH (Hopelessness ; Suicide ideation)	Family caring about
Indian adolescents. Journal of Adolescent Health, 21, 400-406.		
Pharris, M.U., Resnick, M.U., & Blum, R.W. (1997). Protecting	MH (Suicide attempts)	ramly caring
Medicine, 153, 573-580.		3
Risk and protective factors. Archives of Pediatric & Adolescent		
Suicide attempts among American Indian and Alaska Native youth:		
Borowsky, I.W., Resnick, M.D., Ireland, M., & Blum, R.W. (1999).	MH (Suicide attempts)	Family connectedness
Indian adolescents. Journal of Adolescent Health, 21, 400-406.		
against hopelessness and suicidality in sexually abused American		
Pharris, M.D., Resnick, M.D., & Blum, R.W. (1997). Protecting	MH (Suicide ideation female only; Suicide attempts)	Parental caring
465-476.		
neonle from suicide. American Journal of Health Behavior, 32(5)		
S.J., & Eichhorn, J. (2008). Protecting urban American Indian young		behavior norms
Pettingell, S.L., Bearinger, L.H., Skay, C.L., Resnick, M.D., Potthoff,	MH (Suicide attempts)	Parental pro-social
Journal of Ethnicity in Substance Abuse, 9, 260-283.		
a sample of Native American youth: An analysis of predictive factors.		
and peer influence on alcohol, marijuana, and illicit drug use among		
HeavyRunner-Rioux, A.R. & Hollist, D.R. (2010). Community, family,	SA (Lifetime marijuana use)	Parental attachment
Behaviors, 35, 694-699.		
illicit drug symptoms in American Indian adolescents. Addictive		
religious affiliation as mediators between negative environment and		relationships
Yu, M., & Stiffman, A.R. (2010). Positive family relationships and	SA (Illicit drug use/dependence)	Positive family
Indian adolescents. Journal of Adolescent Health, 21, 400-406.		
against hopelessness and suicidality in sexually abused American	Hopelessness)	
Pharris, M.D., Resnick, M.D., & Blum, R.W. (1997). Protecting	MH (Suicide ideation; Suicide attempts;	Family attention
Maternal and Child Health Journal, 12, S82-S90.		According
and other drugs among urban American Indian youth in Oklahoma.		
Rodine, S. (2008). Protective assets for non-use of alcohol, tobacco,		
Beebe, L.A., Vesely, S.K., Oman, R.F., Tolma, E., Aspy, C.E., &	SA (Other illicit drug use in the past 30 days)	Family Communication
Medicine, 153, 573-580.		
Risk and protective factors. Archives of Pediatric & Adolescent		•
Suicide attempts among American Indian and Alaska Native youth:		with family or friends
Borowsky, I.W., Resnick, M.D., Ireland, M., & Blum, R.W. (1999).	MH (Suicide attempts)	Discussing problems
	PARIENT/CHILD CONNECTION	

Pharris, M.D., Resnick, M.D., & Blum, R.W. (1997). Protecting against hopelessness and suicidality in sexually abused American Indian adolescents. <i>Journal of Adolescent Health</i> , 21, 400-406.	MH (Suicidal ideation [Males])	School people caring	
Pharris, M.D., Resnick, M.D., & Blum, R.W. (1997). Protecting against hopelessness and suicidality in sexually abused American Indian adolescents. <i>Journal of Adolescent Health</i> , 21, 400-406.	MH (Suicidal ideation [Males and Females]; Hopelessness [Females])	Adult caring	
Pharris, M.D., Resnick, M.D., & Blum, R.W. (1997). Protecting against hopelessness and suicidality in sexually abused American Indian adolescents. <i>Journal of Adolescent Health</i> , 21, 400-406.	MH (Suicidal ideation; Hopelessness)	Tribal leader caring	
Whitbeck, L.B., Walls, M.L., Johnson, K.D., Morrisseau, A.D., McDougall, C.M. (2009). Depressed affect and historical loss among North American indigenous adolescents. <i>American Indian and Alaska Mental Health Research</i> , 16(3), 16-49.	MH (Depression)	Adult warmth and supportiveness	
Beebe, L.A., Vesely, S.K., Oman, R.F., Tolma, E., Aspy, C.E., & Rodine, S. (2008). Protective assets for non-use of alcohol, tobacco, and other drugs among urban American Indian youth in Oklahoma. Maternal and Child Health Journal, 12, S82-S90.	SA (Alcohol use past 30 days, tobacco use in the past 30 days, and other illicit drug use in the past 30 days)	Non-parental adult role model	Table State
ULTS	INVOLVEMENT WITH OTHER ADULTS		
See Bates et al. (1997).	SA (Alcohol involvement)	Family sanctions against alcohol	
Swaim, R.C., Oetting, E.R., Thurman, P.J., Beauvais, F., & Edwards, R.W. (1993). American Indian adolescents drug use and socialization characteristics: A cross-cultural comparison. <i>Journal of Cross-Cultural Psychology</i> , 24(1), 53-70.	SA (Drug use)	Family sanctions against drugs	
Pharris, M.D., Resnick, M.D., & Blum, R.W. (1997). Protecting against hopelessness and suicidality in sexually abused American Indian adolescents. <i>Journal of Adolescent Health</i> , 21, 400-406.	MH (Hopelessness Suicide ideation)	Parental expectations	
Manson, S.M., Beals, J., Dick, R.W., & Duclos, C. (1989). Risk factors for suicide among Indian adolescents at a boarding school. <i>Public Health Reports</i> , <i>104</i> (6), 609-614.	MH (Suicide attempts)	To any or a second seco	Little perceived family social support
Dick, R.W., Manson, S.M., & Beals, J. (1993). Alcohol use among male and female Native American adolescents: Patterns and correlates of student drinking in a boarding school. <i>Journal of Studies on Alcohol and Drugs</i> , 54, 172-177.	SA (Alcohol quantity-frequency; frequency of intoxication)	Family support	
ONT.	PARENT/CHILD CONNECTION CONT		

Manson, S.M., Beals, J., Dick, R.W., & Duclos, C. (1989). Risk factors for suicide among Indian adolescents at a boarding school. <i>Public Health Reports</i> , <i>104</i> (6), 609-614.	MH (Current suicidality)		Greater perceived friend social support
Borowsky, I.W., Resnick, M.D., Ireland, M., & Blum, R.W. (1999). Suicide attempts among American Indian and Alaska Native youth: Risk and protective factors. Archives of Pediatric & Adolescent Medicine, 153, 573-580.	MH (Suicide attempts)	Discussing problems with family or friends	
Bates, S.C., Beauvais, F., & Trimble, J.E. (1997). American Indian adolescent alcohol involvement and ethnic identification. Substance Use & Misuse, 32(14), 2013-2031.	SA (Alcohol involvement)		Peer alcohol associations
Spicer, P., Novins, D., Mitchell, C.M., & Beals, J. (2003). Aboriginal social organization, contemporary experience and American Indian adolescent alcohol use. <i>Journal of Studies on Alcohol and Drugs</i> , 64, 450-457.	SA (Quantity-frequency of alcohol use past month): Greatest and usual number of drinks; number of days drinking and drunk; episodes of drinking 2 days or more		Peer encouragement of alcohol use
Yu, M., Stiffman, A.R., & Freedenthal, S. (2005). Factors affecting American Indian adolescent tobacco use. <i>Addictive Behaviors</i> , 30, 889-904.	SA (Tobacco use)		Peer misbehavior
HeavyRunner-Rioux, A.R. & Hollist, D.R. (2010). Community, family, and peer influence on alcohol, marijuana, and illicit drug use among a sample of Native American youth: An analysis of predictive factors. <i>Journal of Ethnicity in Substance Abuse</i> , <i>9</i> , 260-283.	SA (Lifetime; 30 day alcohol; Marijuana; Illicit drug use)		Delinquent peers
Radin, S.M., Neighbors, C., Walker, P.S., Walker, R.D., Marlatt, G.A., & Larimer, M. (2006). The changing influences of self-worth and peer deviance on drinking problems in urban American Indian adolescents. <i>Psychology of Addictive Behaviors</i> , 20(2), 161-170.	SA (Alcohol related problems)		Peer Deviance
Yu, M., & Stiffman, A.R. (2010). Positive family relationships and religious affiliation as mediators between negative environment and illicit drug symptoms in American Indian adolescents. <i>Addictive Behaviors</i> , 35, 694-699.	SA (Illicit drug use/dependence)		Deviant peers
Yu, M., & Stiffman, A.R. (2007). Culture and environment as predictors of alcohol abuse/dependence symptoms in American Indian youths. <i>Addictive Behaviors</i> , 32, 2253-2259.	SA (Alcohol abuse/dependence)		Peer misbehavior
Dickens, D.D., Dieterich, S.E., Henry, K.L., Beauvais, F. (2012). School bonding as a moderator of the effect of peer influences on alcohol use among American Indian adolescents. <i>Journal of Studies on Alcohol and Drugs, 73</i> , 597-603.	SA (Lifetime use; level of alcohol use)		Peer alcohol use
	PEER INTERACTION OUTCOING		

		SOCIAL CONNECTIVITY	
	Sense of belonging as connectedness	MH (Suicidal ideation)	Hill, D.L. (2009). The relationship between sense of belonging as connectedness and suicide in American Indians. <i>Archives of Psychiatric Nursing</i> , 23(1), 65-74.
Extreme alienation from family and community		MH (Suicide attempts)	Grossman, D.C., Milligan, C., & Deyo, R.A. (1991). Risk factors for suicide attempts among Navajo adolescents. <i>American Journal of Public Health</i> , 81(7), 870-874).
Domestic Violence (physical assault)		PARTINER/MARITAL PROBLEMS MH (Depression; PTSD symptomology)	Hamby, S.L., & Skupien, M.B. (1998). Domestic violence on the San Carlos Apache Reservation: Rates, associated psychological symptoms, and current beliefs. <i>The IHS Primary Care Provider: A</i>
Dadana a control otor		NE /Paragina PTOP and and and and	Natives, 23(a), 103-106.
finances		mi (Espression, r 100 symptomoregy)	Carlos Apache Reservation: Rates, associated psychological symptoms, and current beliefs. <i>The IHS Primary Care Provider:</i> A
Try position in the last of th			Journal for Health Professionals with American Indians and Alaska Natives, 23(8), 103-106.
Severe physical or sexual intimate partner		MH (Any mood disorder)	Duran, B., Oetzel, J., Parker, T, Malco Halinka L., Lucero, J., Jiang, Y. (2009) Intimate partner violence and alcohol, drug, and mental
violence			disorders among American Indian women from southwest tribes in primary care. American Indian and Alaska Native Mental Health Research. Vol 16(2).
Shorter relationship lengths		MH (Depression)	Hamby, S.L., & Skupien, M.B. (1998). Domestic violence on the San Carlos Apache Reservation: Rates, associated psychological
			symptoms, and current beliefs. <i>The IHS Primary Care Provider: A Journal for Health Professionals with American Indians and Alaska Natives</i> , 23(8), 103-106.

	LIFETIME ABUSE/ASSAULT	
And the second s		
Adult abuse events	SA (Not specified)	Bohn, D.K. (2003). Lifetime physical and sexual abuse, substance
(Including domestic		abuse, depression, and suicide attempts among Native American
violence)		women. Issues in Mental Health Nursing, 24, 333-352.
Sexual assault	MH (Depression; Dysphoria)	Evans-Campbell, T., Lindhorst, T., Huang, B., & Walters, K.L. (2006).
		Interpersonal violence in the lives of urban American Indian and
Multiple victimization		Alaska Native Women: implications for health, mental health, and
The state of the s		help-seeking. American Journal of Public Health, 96(8), 1416-1422.
Violence perpetration	MH (Suicide attempts)	Pettingell, S.L., Bearinger, L.H., Skay, C.L., Resnick, M.D., Potthoff,
(males)		S.J., & Eichhorn, J. (2008). Protecting urban American Indian young
		people from suicide. American Journal of Health Behavior, 32(5),
THE CONTRACTOR OF THE CONTRACT		465-476.
Adult victim of physical	MH (Depression/dysthymia; PTSD; Panic/GAD)	Libby, A.M., Orton, H.D., Novins, D.K., Beals, J., & Manson, S.M.
abuse/attack		(2005). Childhood physical and sexual abuse and subsequent
		depressive and anxiety disorders for two American Indian tribes.
		Psychological Medicine, 35(3), 329-340.
Adult victim of sexual	MH (Depression/dysthymia; PTSD; Panic/GAD)	Libby, A.M., Orton, H.D., Novins, D.K., Beals, J., & Manson, S.M.
anan		(2003): Cilidinoto priysical and sexual aduse and subsequent depressive and anxiety disorders for two American Indian tribes. Perchalación Madicipa, 25(2), 220, 240

	Negative school environment	Did not go to school in the past 30 days because felt unsafe		Neignbornood poverty		Neighborhood safety	Gang involvement	Gun availability			
School attachment								- Average - Aver			
SA (Lifetime illicit drug use)	SA (Illicit drug use/dependence)	MH (Suicide attempts)	South	SA (Litetime; 3- day marijuana use)	MH (Depressive symptoms)	SA (Alcohol use past 30 days; Marijuana past 30 days)	MH (Suicide attempts)	MH (Suicide attempts)	Control	COMMUNITY STRESS/VIOLENCE	COMMUNITY
HeavyRunner-Rioux, A.R., & Hollist, D.R. (2010). Community, family, and peer influence on alcohol, marijuana, and illicit drug use among a sample of Native American youth: An analysis of predictive factors. Journal of Ethnicity in Substance Abuse, 9, 260-283.	Yu, M., & Stiffman, A.R. (2010). Positive family relationships and religious affiliation as mediators between negative environment and illicit drug symptoms in American Indian adolescents. <i>Addictive Behaviors</i> , 35, 694-699.	Mackin, J., Perkins, T., & Furrer, C. (2012). The power of protection: A population-based comparison of native and non-native youth suicide attempters. American Indian and Alaska Native Mental Health Research, 19(2), 20-54.	טעוומו טו בוווווטוץ זוו סמטאמווטק אטעטק, ש, בטט־בטט.	HeavyRunner-Rioux, A.R. & Hollist, D.R. (2010). Community, family, and peer influence on alcohol, marijuana, and illicit drug use among a sample of Native American youth: An analysis of predictive factors. Journal of Ethnicity in Substance Abuse 9, 260-283	symptoms and alcohol/marijuana use. <i>Adolescence</i> , 44(176), 965-978.	Nalls, A.M., Mullis, R.L., & Mullis, A.K. (2009). American Indians' perceptions of their environment and their reports of depressive	Borowsky, I.W., Resnick, M.D., Ireland, M., & Blum, R.W. (1999). Suicide attempts among American Indian and Alaska Native youth: Risk and protective factors. <i>Archives of Pediatric & Adolescent Medicine</i> , 153, 573-580.	Borowsky, I.W., Resnick, M.D., Ireland, M., & Blum, R.W. (1999). Suicide attempts among American Indian and Alaska Native youth: Risk and protective factors. Archives of Pediatric & Adolescent Medicine, 153, 573-580.	Change Selection		

O'Connell, J.M., Novins, D.K., Beals, J., Spicer, P., & the Al-SUPERPFT Team. (2005). Disparities in patterns of alcohol use among reservation-based and geographically dispersed American Indian populations. <i>Alcoholism: Clinical and Experimental Research</i> 29(1), 107-116.	SA (Binge drinking)		Reservation-based residence
Whitbeck, L.B., Walls, M.L., Johnson, K.D., Morrisseau, A.D., McDougall, C.M. (2009). Depressed affect and historical loss among North American indigenous adolescents. <i>American Indian and Alaska Mental Health Research</i> , <i>16</i> (3), 16-49.	MH (Depression)	Living on a geographically remote reserve	
· 医克里克氏 医克里克氏 医乳球 医乳球 医乳球 医毛球 医毛球 医乳球 医二甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基	RESERVATION RESIDENCE		
Pharris, M.D., Resnick, M.D., & Blum, R.W. (1997). Protecting against hopelessness and suicidality in sexually abused American Indian adolescents. <i>Journal of Adolescent Health</i> , 21, 400-406.	MH (Hopelessness Suicidal ideation; Suicide attempts)	Positive feelings about school	
Napoli, M., Marsiglia, F.F., & Kulis, S. (2003). Sense of belonging in school as a protective factor against drug abuse among Native American urban adolescents. Journal of Social Work Practice in the Addictions, 3(2), 25-41.	SA (Lifetime use of alcohol and cigarettes; amount of cigarettes and marijuana used in the last 30 days; frequency of alcohol and cigarettes past 30 days; average frequency of drug use; number of drugs ever used; age of initiation into drug use; later onset of drug use)	Sense of belonging in school	
Nalls, A.M., Mullis, R.L., & Mullis, A.K. (2009). American Indians' perceptions of their environment and their reports of depressive symptoms and alcohol/marijuana use. <i>Adolescence</i> , 44(176), 965-978.	SA (Marijuana, past 30 days)		Low sense of school safety
Dickens, D.D., Dieterich, S.E., Henry, K.L., Beauvais, F. (2012). School bonding as a moderator of the effect of peer influences on alcohol use among American Indian adolescents. <i>Journal of Studies on Alcohol and Drugs</i> , 73, 597-603.	SA (Lifetime and level of alcohol use)	School bonding	
	0.018 GeV $^{\circ}$		
	School, cont.		

More American Indian oriented	Perceived discrimination	Perceived discrimination	Perceived discrimination	Historical loss	Historical loss	
ented SA (Heavy drinking; Alcohol abuse and/or dependence)	MH (Suicide attempts)	SA (Early onset SA) MH (Internalizing symptoms)	MH (Depression)	MH (Depression) PERCEIVED DISCRIMINATION	SA (Alcohol abuse)	SOCIETAL HISTORICAL LOSS
Herman-Stahl, M., Spencer, D.L., & Duncan, J.E. (2003). The implications of cultural orientation for substance use among American Indians. <i>American Indian and Alaska Native Mental Health Research</i> 11(1), 46-66.	Yoder, K.A., Whitbeck, L.B., Hoyt, D.R., & LaFromboise, T. (2006). Suicidal ideation among American Indian youths. <i>Archives of Suicide Research, 10,</i> 177-190.	Whitbeck, L.B., Hoyt, D.R., McMorris, B.J., Chen, X., & Stuben, J.D. (2001). Perceived discrimination and early substance abuse among American Indian children. Journal of Health and Social Behavior, 42(4), 405-424.	Whitbeck, L.B., Walls, M.L., Johnson, K.D., Morrisseau, A.D., McDougall, C.M. (2009). Depressed affect and historical loss among North American indigenous adolescents. <i>American Indian and Alaska Mental Health Research</i> , 16(3), 16-49.	Whitbeck, L.B., Walls, M.L., Johnson, K.D., Morrisseau, A.D., McDougall, C.M. (2009). Depressed affect and historical loss among North American indigenous adolescents. <i>American Indian and Alaska Mental Health Research</i> , 16(3), 16-49.	Whitbeck, L.B., Chen, X., Hoyt, D.R. & Adams, G.W. (2004). Discrimination, historical loss, and enculturation: Culturally specific risk and resiliency factors for alcohol abuse among American Indians. <i>Journal of Studies on Alcohol.</i> 65(4), 409-418.	

Yu, M., & Stiffman, A.R. (2007). Culture and environment as predictors of alcohol abuse/dependence symptoms in American Indian youths. <i>Addictive Behaviors</i> , 32, 2253-2259.	SA (Alcohol abuse/dependence). Authors' note: Focus group meetings with American Indian college students revealed that events such as Powwows (even though alcohol free) were regularly followed by the "49's" which is informal social gathering involving alcohol.	eneric (e.g.	Participation in generic cultural activities (e.g. Powwows/dances & feasts/memorial)
Pharris, M.D., Resnick, M.D., & Blum, R.W. (1997). Protecting against hopelessness and suicidality in sexually abused American Indian adolescents. <i>Journal of Adolescent Health</i> , 21, 400-406.	MH (Suicide attempts)	Involvement in traditional activities	
Yoder, K.A., Whitbeck, L.B., Hoyt, D.R., & LaFromboise, T. (2006). Suicidal ideation among American Indian youths. <i>Archives of Suicide Research</i> , 10, 177-190.	MH (Suicide attempts)	Enculturation	
(2004). Discrimination, historical loss, and enculturation: Culturally specific risk and resiliency factors for alcohol abuse among American Indians. <i>Journal of Studies on Alcohol</i> , 65(4), 409-418.		traditional activities, identification with Al culture and traditional spirituality)	
Whitbeck, L.B., Chen, X., Hoyt, D.R., & Adams, G.W.	SA (Alcohol Abuse)	Enculturation (participation in	T TOTAL DESCRIPTION OF THE PARTY OF THE PART
	CULTURE, CONT.		

Risk and Protective Factors for Adolescent Substance Use

(and other Problem Behavior)

A Review and Summary of the Research conducted by

- Prevention Research Committee for Behavioral Health (2006)
- Behavioral Health Epidemiological Outcomes Workgroup (2007)
- SPF/SIG Epidemiological Influences Workgroup* (2010)

Contents:

- Overview of risk and protective factors
- Overlap of factors across adolescent problem behaviors
- Definitions for each factor
- Priority factors and their state-level indicators
- Risk and protective factors for FASD secondary disabilities
- Research citations for each factor
 - * Additional citations added as new research is published.

Alaska Division of Behavioral Health

January 2011

What are Risk and Protective Factors?

Extensive national research, spanning over fifty years, has demonstrated a strong association between specific social conditions, personal characteristics, experiences and the involvement in unhealthy behavior. This research has identified these influences as *Risk and Protective Factors*. This paper provides an overview of the cross disciplinary research behind each of the factors.

Risk factors are characteristics within the individual or conditions in the family, school or community that *increase the likelihood* someone will engage in unhealthy behavior such as: the use of alcohol, tobacco and other drugs, violence, suicide, or early sexual activity. The *more* risk factors present in a child's life, *the greater the likelihood* problems will develop in adolescence.

Protective factors are characteristics within the individual or conditions in the family, school or community that help someone cope successfully with life challenges. When people can successfully negotiate their problems and deal with pre-existing risk factors, they are less likely to engage in unhealthy behavior. Protective factors are instrumental in healthy development; they build resiliency, skills and connections.

The term, Protective Factor, is sometimes used interchangeably with the terms: Resiliency, Developmental Assets[™], or positive youth development. Each of these terms refer to a strengths-based approach of working with children, youth and the community.

Most communities track substance use prevention efforts by monitoring prevalence or consumption data (e.g. 30 day use, binge use, ever use) or the consequences of use (e.g. drinking driving crashes, hospital visits, school suspensions.) Prevention science addresses and monitors the *influences on behavior* (risk and protective factors) as well, to prevent unhealthy behavior and nurture development.

The more *protective factors are increased* and *risk factors reduced* the more likely unhealthy behavior and its associated problems can be prevented.

Risk and Protective Factors for FASD Secondary Disabilities

If a child is born with a fetal alcohol spectrum disorder (FASD) he/she is at risk for developing secondary disabilities in childhood and adolescence. Dr. Ann Streissguth through research with the University of Washington identified key risk and protective factors for FASD secondary disabilities.⁵¹ They are as follows:

Protective Factors

- Living in a stable and nurturing home
- Having basic life needs met
- Being diagnosed before the age of six year
- Never having experienced violence against oneself
- Staying in each living situation for an average of more than 2.8 years
- Experiencing a good quality home from ages 8-12
- · Being eligible for Developmental Disability

Risk Factors

- Having an alcohol related birth defect other than FAS
- Having an IQ above 70

Risk and Protective Factors for Adolescent Problem Behaviors

Extensive research has identified factors that impact youth problem behaviors such as substance use, violence, suicide ideation, and early sexual activity. Studies have found, the more risk factors an adolescent has, the greater the likelihood of problem behavior. Conversely, youth with more protective factors and a resilient personality are better able to cope with risk factors and life challenges; they are less likely to be involved in problem behaviors and more likely to do well in school and in life.

PROTECTIVE FACTORS

Characteristics within the individual or conditions in the family, school or community that help youth cope successfully with life challenges and existing risk factors.

<u>FAMILY</u>

- Family connectedness (attachment & bonding)*
- · Positive parenting style
- Living in a two parent family
- Higher parent education
- · High parental expectations about school

SCHOOL

- Connected to school*
- · Caring school climate
- Student participation in extracurricular activities

COMMUNITY

- Positive connection to other adults*
- Safe, supportive, connected neighborhood
- Strong community infrastructure (services for those in need)
- Local, state policies and practices that support healthy norms and child-youth programs
- Range of opportunities in the community for meaningful youth engagement

INDIVIDUAL - PEERS

- · Engagement in meaningful activities
- Life skills and social competence* (Social Emotional/Employability Skills)
- Cultural identity and connection*
- Positive personal qualities
- Positive self concept
- Positive peer role models
- Religious identity
- High grade point average

RISK FACTORS

Characteristics within the individual or conditions in the family, school or community that <u>increase the likelihood</u> youth will engage in problem behavior.

FAMILY

- Death by suicide of a friend or family member*
- · Family history of the problem behavior
- · Family management problems
- Family conflict
- Favorable parental attitudes and involvement in problem behaviors
- Household access to substances or guns

SCHOOL

- Academic failure
- · Lack of personal commitment to school

COMMUNITY

- Availability of alcohol/other drugs*
- Community norms and laws*
- Availability of firearms
- Transitions and mobility (moving a lot)
- Low neighborhood attachment & community disorganization
- Poverty

INDIVIDUAL - PEERS

- Experienced child abuse (physical, sexual) or other family violence*
- Early initiation of the problem behavior*
- Loss of cultural identity and connection*
- Constitutional factors (see definition)
- Childhood media exposure to violence and alcohol
- · Early and persistent antisocial behavior
- Friends who engage in the problem behavior
- Favorable attitudes toward the problem behavior (low perceived-risk of harm)
- Gang involvement
- Older physical appearance than peers
- Paid work more than 20 hrs/week
- Perceived risk of untimely death

	PROTECTIVE for Adolescent Prof				
DOMAINS	This list is based upon ongoing research demonstrating the impact protective factors have in preventing problem behavior. Items in bold are the priority factors identified by the Behavioral Health Epidemiological workgroup and the Division of Behavioral Health.	Suicide, thoughts and attempts	Substance Use	Violence	Early Sexual Activity and Teen Pregnancy
	Connected to Family (attachment/bonding) 1,4,6,7,15,25, 46,53,61	~	_	V	_
-	Positive parenting style ^{6,8,11,15,21,53}	-		~	-
FAMILY	Living in a two parent family ^{6,21,25}		~		~
FA	Higher parent education ^{2,4,6,8,11,17,21}		~	~	~
	Higher parental expectations about school	~	~	~	
1	Connected to school (attachment/bonding) 1,6,8,9,10,15, 34, 53	*	~	~	~
100	Caring school climate 2,3,8,9,15, 23, 25,53	¥	~	~	~
SCHOOL	Student participation in extracurricular activities ^{6, 8,9,13b, 15, 28, 29,30}		~		~
	Early intervention services ^{2, 6, 31, 32, 42,43}	>	~		✓
lent	Connected to other positive adults (bonded/attached) 1,3,4,5,9,10,11,13a, 21,33,61	Y	Y	~	•
AITY ronm	Safe, supportive, connected neighborhood ^{1, 6,9,11,14,21,34,61}	~		~	•
MMUNITY -Environment	Strong community infrastructure (services for those in need) 6,12,14,16,61	>	~		~
CON Society-	Local, state policies and practices that support healthy norms and child-youth programs 8,12,13,14,16,17,33	>	>	•	
- 0)	Range of opportunities in the community for mea	aningful yout	h engageme	nt (see belo	w)
	Engagement in positive meaningful activities 3,4,6,8,9,11,25, 38,39,40		¥	•	
S	Cultural identity and connection 47,48,49,61	>	y		
Ë	Positive personal qualities 3,4,5,8,9,19		>		Y
- PE	Positive self concept 1,6,9,11	Y	>		~
IA)	Positive peer role models 6,7,9,17,25,46		y		~
INDIVIDUAL-PEERS	Religious or spiritual beliefs 1,6,9,25,61	~	>		~
N	High grade point average ^{1,6,7,9}	~	¥	~	~
	Life skills and social competencies (Social While life skills are identified as protective for youth p did not identity associations with <u>specific</u> problem bel	roblem behav	mployability S riors in numer	Skills) ^{3,4,5,8,9,11,} rous studies, t	^{14,45,53,61} he research

Note: To be include in this list, the factor must be cited in two or more studies, published in peer- reviewed journals. Additionally the factor had to be cited having an influence on two or more of the four adolescent problem behaviors.

Definitions for Adolescent Protective Factors

Protective factors are characteristics within the individual or conditions within the family, school or community that help young people successfully cope with life challenges. When youth can successfully negotiate their problems and deal with pre-existing risk factors, they are less likely to engage in problem behavior such as: substance abuse, violence, suicide, or early sexuality activity. Protective factors are instrumental in healthy development; they build resiliency, skills and connections. The definition of each factor is derived from its research base.

Family Protective Factors

Connected to Family (Priority Protective Factor) —Family connectedness has several components. Connectedness refers to the feelings of warmth, love and caring children get from their parents. Children who feel support and connection report a high degree of closeness, feelings of being understood, loved, and wanted. A parental presence is related to connection; it refers to a parent being present during key times: before school, after school, dinner, bedtime and doing activities together. The National Longitudinal Study of Adolescent Health found this to be one of the strongest protective factors against all risk behaviors. ^{1, 4,6,7,15,25, 46, 53, 61}

Positive parenting style – A "positive parenting style" involves high expectations, clear family rules, fair and consistent discipline practices and age-appropriate supervision and monitoring of behavior, friends and whereabouts. ^{6 8,11,15,21,53}

Two parent families – National research has found that children who grow up in a family with two parents are less likely to engage in adolescent problem behaviors. ^{6,21,25}

Higher Parent education - Children whose parents have graduated from high school and have received higher education training are less likely to engage in risk behaviors. ^{2,4,6,8,11,17,21}

High parental school expectations - Children who have parents with higher expectations for school success, high school and college completion, and personal achievement are less likely to engage in risk behaviors. ^{8,11,18,24}

School Protective Factors

Connected to School (Priority Protective Factor) – Students feel "connected" (attached/bonded) to their school based on their feelings about the people at school, both staff and other students. School connectedness is closely related to caring school climate. Connectedness is described as being treated fairly by teachers, feeling close to people at school, being safe and feeling like a part of the school. School connectedness protects youth against many health risks, including smoking, alcohol, drug use, and early sexual initiation. Strong connectedness with school has also been shown to contribute positively to academic achievement . ^{1,6,8,9,10,15, 34,53}

Caring school climate - This protective factor refers specifically to whether or not youth feel that their schools <u>provide a caring, supportive, and encouraging environment</u>. A caring school climate (positive school atmosphere) has an impact on rates of absenteeism, delinquency, substance use, teen pregnancy, and emotional disturbances. Characteristics that contribute to a positive school climate include: 1) High expectations for student academics, behavior and responsibility; 2) Use of proactive classroom management strategies, interactive teaching and cooperative learning and maintain a positive atmosphere; 3) Consistent acknowledgement all students, and recognition for good work; 4) Student voice in school activities and classroom management. ^{2,3,8,9,15,23,25,53}

Student participation in extracurricular activities - Student participation and contribution includes activities such as tutoring, peer programs, school clubs, and service learning. Peer programs involve youth in the planning, implementation and/or evaluation of programs directed toward students of the same age or younger. These programs aim to enhance the positive impact of peer groups and minimize their potential negative impact. ^{6, 8,9, 13b, 15,28, 29, 30}

Peer programs have been broken down into five categories:

- Peer teaching
- · Peer helping
- Positive peer influence
- Peer participation in decision making.
- Service or service learning programs
 Service-based programs engage young people in improving the living conditions and quality of life
 for those in their community. Teens are provided with valuable pre-employment skills as they
 volunteer for worthy causes through local organizations and community projects.

Early intervention services - Student assistance programs, counseling support groups, and school linked health centers provide the learning supports that are often critical to helping students stay in school. Student assistance programs provide prevention and intervention services to those students whose lives have been impacted by alcohol and drug abuse, violence, divorce, death, child abuse, stress or depression. This may include support or education in problem solving, self-esteem, social skills, and conflict resolution. ^{2,6,31,32,42,43,61}

Community Protective Factors

Positive connection to *other* **adults (Priority Protective Factor)** – This refers to the support and caring youth receive in relationships with adults, other than family members (i.e. neighbors, coaches, teachers, mentors or ministers). As children grow, they become involved in an expanded network of significant relationships. This broad network includes many adults who can provide regular contact, mentoring, support, and guidance. ^{1,3,4,5,9,10,11,13a,14, 21, 33, 61}

Safe supportive connected neighborhood - While relationships with caring adults on an individual basis are very important, the collective feeling of safety and support coming from the community or neighborhood as a whole adds a synergistic component of protection against risk behaviors. This protective factor has three features: connection, positive social norms, and monitoring. Connection refers to young people's perception of feeling safe, valued, attached, and "belonging to" their neighborhood, community, or in some cases, youth programs. Positive social norms are maintained when community members have high expectations for children and monitoring and accountability refers to the degree to which neighbors watch out for each other and monitor the whereabouts and behaviors of their children, as well as hold them accountable for their behaviors. ^{1, 6,9,21,34, 61}

Strong community infrastructure - Infrastructure refers to the effective and accessible clinical services for physical and reproductive health, mental health, and substance abuse disorders. ^{6,12,14,16,61}

Local and state policies (sometimes called *environmental approaches*) - Local and state <u>policies</u> that support healthy norms and child youth programs can reduce risk behaviors on several levels. Examples include: restrictions or bans on alcohol sales, higher taxes on tobacco or alcohol, restrictions on liquor licenses, safe storage of firearms and ammunition, etc. ^{8,12,13,14, 16, 33}

Individual/Peer Protective Factors

Engagement in Meaningful Activities (Priority Protective Factor) – This refers to activities involving volunteering and helping others in community or peer-based programs, or service-learning projects. This protective factor is associated with the reduction of several risk-taking behaviors (alcohol, tobacco or drug use, delinquency, anti-social behaviors, teen pregnancy, school suspensions or school dropout. Programs increase skills and positive development when youth are involved in all phases: planning, organizing, implementation and evaluation. ^{3,4,7,6,8,9,11,25, 38, 39, 40}

Cultural Identity and Connection (Priority Protective Factor) *also see Risk Factor Loss of Cultural Identity* Culture is the sum total of ways of living, this includes: values, beliefs, traditions, protocols, rituals, language, behavioral norms, ways of knowing and styles of communication. One's Cultural Identity is the extent to which someone connects to and practices the values, beliefs and traditions of their identified culture. 47,48,49,61

Life Skills and Social Competencies (Priority Protective Factor) - This refers to the abilities that equip young people to make positive choices, maintain healthy relationships, and succeed in life. 3,4,5,8,9,11,53,61

- 1. <u>Communication Skills:</u> the ability to communicate appropriately with people of different ages, backgrounds and status it includes listening skills.
- 2. Cultural Competence: the knowledge of and comfort shown with people of different cultural / racial / ethnic backgrounds.
- 3. Conflict Resolution Skills: the ability to manage and resolve conflicts in constructive non-violent ways.
- Empathy Skills: the ability to be sensitive to the feelings and experiences of others and to act in a caring way towards others.
- 5. Resistance Skills: the ability to resist negative peer pressures and thereby avoid possible dangerous situations.
- 6. Life Skills: the skills of problem solving, decision making, stress management and critical thinking.

Social, Emotional/Employability Skills are used by many school districts, they *over lap* with life skills above. The skills include:

- <u>Self-Awareness</u>: Knowing what one is feeling in the moment: having a realistic assessment of our own abilities and a well-grounded sense of self-confidence.
- <u>Self-Management</u>: Handling one's emotions so they facilitate rather than interfere with the task at hand; being conscientious and delaying gratification to pursue goals; persevering in the face of setbacks and frustrations.
- <u>Social Awareness</u>: Understanding what others are feeling; being able to take their perspective; appreciating and interacting positively with diverse groups.
- Social Management: Handling emotions in relationships effectively; establishing and maintaining healthy and rewarding relationships based on cooperation, resistance to inappropriate social pressure, negotiating solutions to conflict, and seeking help when needed.

Positive personal qualities - Personal qualities associated with the likelihood of engaging in fewer risk behaviors include: an easy-going temperament, a sense of purpose and positive future, a feeling of control over one's environment, and internal motivation. ^{3,4,5,8,9,19}

Positive self concept - This protective factor refers to the perceptions and judgments youth have, and make about themselves. A youth with a positive self concept believes that he or she is "a person of worth", likes himself/herself, feels loved and wanted, and has "positive characteristics." ^{1,6,9,11}

Positive peer role models - This protective factor relates to youth who have friends with the following qualities: a positive attitude about health, good grades, no involvement in risk behaviors, and close relationships with parents. ^{6,7,9,17,25, 46}

High grade-point average - Students with higher grades (As and Bs) in English, Math, History/Social Studies, and Science are more likely to be connected to school, and less likely to be involved in risk behaviors. ^{1,6,7,9}

Religious or spiritual beliefs - The personal importance placed on religion, prayer or spiritual beliefs is associated with decreased use of cigarette smoking, drinking, marijuana use and suicide (and correlated with delayed sexual activity.) A religious identity is defined by the degree to which a young person affiliates with a religion and, if so, frequency of prayer and perception as religious. ^{1,6,9,25,61}

RISK Factors for Adolescent Problem Behaviors

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DOMAINS	Risk factors are characteristics within the individual or conditions in the family, school or community that increase the likelihood youth will engage in problem behaviors. NOTE: Items in bold are the priority factors identified by the state Behavioral Health Epidemiological workgroup and the Division of Behavioral Health.	Suicide, thoughts and attempts	Substance Abuse	Violence	Early Sexual Activity Teen Pregnancy
	Family history of the problem behavior 2,4,8,11,18,61	~	~	V	~
	Family management problems ^{8,18}	~	~	~	~
\	Family conflict 8,18	~	~	Y	~
FAMILY	Favorable parental attitudes and involvement in problem behaviors ^{8,18}		~	~	
_	Household access to substances or guns ^{1,11}		✓	-	
	Death by suicide of a friend or family member, or suicide attempts ^{1,7, 11, 61}	~		~	****
201	Academic failure ^{1, 2, 8,18}	~	~	~	~
SCHOOL	Lack of personal commitment to school	~	~	~	~
†	Availability of alcohol/other drugs 8,12,18		✓	~	
	Availability of firearms 8,12,18	~		~	
COMMUNITY	Availability of alcohol/other drugs 8,12,18 Availability of firearms 8,12,18 Community laws and norms favorable to drug use, firearms, and crime 8,11,18,52 Transitions and mobility (moving a lot) 8,18		~	~	
	Transitions and mobility <i>(moving a lot)</i> 8,18	y	Y		
CO	Low neighborhood attachment and community disorganization 8,18 Poverty 2,8,11,18, 61		~	Y	
3	0		~	'	~
	Experienced child abuse (physical, sexual) or other family violence) 1,6,11,12,37,61	•		~	~
	Early initiation of the problem behavior 8,18		~	~	~
S	Loss of cultural identity 47,48,49,61	~	~		
出	Constitutional factors (see definition) 8,18,61	~	~	'	
4	Childhood exposure to media		~	'	
AL	Early and persistent antisocial behavior ^{8,18}	~	~	~	~
2	Friends who engage in the problem behavior 8,18		~	~	~
INDIVIDUAL - PEERS	Favorable attitudes toward the problem behavior (including low perceived-risk of harm) 8,18,52		•		•
=	Gang involvement ^{8,18}		~	~	
	Older physical appearance (than peers) 1,6	~	~		~
	Paid work more than 20 hrs/week ^{1,6} Perceived risk of untimely death ^{1,6}	<i>y</i>	<u> </u>	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	~
L	rerceived risk of untimely death	•			

Definitions for Adolescent Risk Factors

Risk factors are characteristics within the individual or conditions in the family, school or community that increase the likelihood youth will engage in problem behavior such as: the use of alcohol, tobacco and other drugs, violence, suicide, and teen pregnancy. The more risk factors present, the greater likelihood youth will develop problems in adolescence. The risk factors identified below are derived from David Hawkins and Richard Catalano's literature search and the National Substance Abuse Prevention Specialist Training curriculum. Additional risk factors, cited by research are included. The definition of each factor is derived from its research base.

Family Risk Factors

Death by suicide of a friend or family member (or suicide attempts) ¹ *Priority Risk Factor* - Youth who have a suicide among any family member or friend in the past 12 months are at greater risk for attempting suicide. ^{1,7,11,61}

Family history of the problem behavior - If children are raised in a family with a history of alcohol/ drug addiction, it increases the likelihood that children will also have alcohol and other drug problems. If children are raised in a family with a history of criminal activity, the risk of juvenile delinquency increases. Similarly, children who are raised by a teenage mother are more likely to become teen parents, and children of dropouts are more likely to drop out of school themselves. ^{2,4,8,11,18,61}

Family management problems - Poor family management practices include lack of clear expectations for behavior, failure of parents to monitor their children – knowing where they are and whom they are with, and excessively severe or inconsistent punishment. ^{8,18}

Family conflict - Persistent, serious conflict between primary caregivers or between caregivers and children appears to increase children's risk for all of the problem behaviors. Whether the family consists of two biological parents, a single parent, or some other primary caregiver appears to matter less than whether the children experience much conflict in their families. For example, domestic violence in a family increases the likelihood that young people will engage in delinquent behaviors and substance abuse, as well as become pregnant or drop out of school. ^{8,18}

Favorable parental attitudes and involvement in problem behaviors - Parental attitudes and behaviors toward drugs, crime, and violence influence the attitudes and behaviors of their children. Parental approval of young people's moderate drinking, even under parental supervision, increases the risk that the young person will use marijuana. Similarly, children of parents who excuse them for breaking the law are more likely to develop problems with juvenile delinquency. In families where parents display violent behavior, children are at greater risk of becoming violent. ^{8,18}

Household access to harmful substances or guns - When youth have access to firearms, alcohol, tobacco or other drugs they are more likely to use them in harmful ways. ^{1,11}

School Risk Factors

Academic failure beginning in elementary school - Academic failure that begins in the late elementary grades (grades 4-6), increases the risk of teen pregnancy, school dropout, as well as drug abuse, delinquency, and violence throughout life. This is also true for a student who has repeated one or more grades. Children fail for many reasons, social as well as academic. The experience of failure, not necessarily lack of ability, appears to increase the risk of problem behaviors. ^{1,2,8,18}

Lack of commitment to school - Low commitment to school means the young person has ceased to see the role of student as a valuable one. Those who do not have commitment to school are at higher risk for substance abuse, delinquency, teen pregnancy, and school dropout. Leaving school before age 15 has been found to correlate with increased risk. 1,8,9,11,18,61

Community Risk Factors

Availability of alcohol / other drugs (Priority Risk Factor) - The more available drugs are in a community, the higher the risk that young people will abuse drugs. Perceived availability of drugs is also associated with risk. In schools where children think that drugs are more available, a higher rate of drug use occurs. ^{8,12,18}

Availability of firearms - The prevalence of firearms in a community predicts a greater likelihood of violent behavior. Legislation, enforcement, and community dynamics combine to influence the local accessibility of drugs and weapons. ^{8,12,18}

Community norms and laws favorable toward drug use, firearms, and crime (**Priority Risk Factor**) Community norms (attitudes) and policies surrounding alcohol/drug use and crime—are communicated in many ways. Formally, they are communicated through laws and written policies and enforcement (examples: alcohol taxes, liquor licenses, drunk driving laws, infractions for selling to minors, laws regulating the sale of firearms). *Informally,* norms, expectations and social practices by parents and the community may communicate a climate of acceptance, approval or tolerance of problem behaviors. ^{8,11,12,18,52}

Transitions and mobility - Even normal school transitions predict increases in problem behaviors. When children move from elementary school to middle school or from middle school to high school, significant increases in the rate of drug use, school misbehavior, and delinquency result. When communities are characterized by frequent nonscheduled transitions, problem behaviors increase. Communities with high rates of mobility *(families moving frequently from home to home)* appear to be linked to an increased risk of drug and crime problems. The more often people in community move, the greater the risk of both criminal behavior and drug-related problems in families. ^{8,18}

Low neighborhood attachment and community disorganization - Higher rates of drug problems, juvenile delinquency, and violence occur in communities or neighborhoods where people have little attachment to the community, where the rates of vandalism are high, and where there is low surveillance of public places. These conditions are not limited to low-income neighborhoods; they can also be found in wealthier neighborhoods. Lower rates of voter participation and parental involvement in schools also indicate lower community attachment. ^{8,18}

Poverty (extreme economic deprivation) - Children who live in deteriorating and crime-ridden neighborhoods characterized by extreme poverty are more likely to develop problems with delinquency, teen pregnancy, school dropout, and violence. Children who live in these areas — and have behavior and adjustment problems early on — are also more likely to have problems with drugs later in life. ^{2, 8,11,18,61}

Individual/Peer Risk Factors

Experienced child abuse (physical, sexual) or other family violence (Priority Risk Factor) - Research suggests that children or youth who have been physically abused or neglected are more likely than others to commit violent crimes and/or become pregnant. Exposure to high levels of marital and family discord or conflict also appears to increase risk, as does antisocial or delinquent behavior by siblings and peers. ^{1, 6, 11, 37,61}

Early initiation of problem behavior (Priority Risk Factor) - The earlier young people begin using drugs, committing crimes, engaging in violent activity, dropping out of school and becoming sexually active, the greater the likelihood that they will continue these behaviors later in life. For example, research shows that young people who initiate drug use before the age of 15 are at twice the risk of having drug problems as those who wait until after the age of 19. ^{6,8,18}

Loss of Cultural Identity (Priority Risk Factor) – Alaska Native and American Indian people may face Alaska Native and American Indian (ANAI) persons or groups may experience higher levels of psychological and social stress due in part to historical trauma, oppression and imposed cultural change. These adverse experiences or risk factors are associated with suicide and high rates of alcohol and other drug use. Other groups defined by ethnicity, age, religious affiliation, or sexual orientation, may experience similar risk factors. 47,48,49,61

Constitutional factors - Constitutional factors may have a biological or physiological basis. These factors are often seen in young people who engage in <u>sensation-seeking</u> and low harm-avoidance behavior and those who demonstrate a <u>lack of impulse control</u>. Examples include <u>fetal alcohol and drug exposure</u>, environmental poisoning, brain injuries, chronic conditions and, in some cases, ADHD (Attention Deficit Hyperactivity Disorder.) These factors appear to increase the risk that young people will use drugs, engage in delinquent behavior and commit violent acts. ^{8,1,61,}

Childhood media exposure to violence and alcohol

Numerous studies have explored the impact of media exposure on children and adolescent several risk taking behaviors Longitudinal studies consistently suggest that exposure to media communications on alcohol (advertising and promotion) alters adolescent's attitudes, perceptions and expectations about alcohol. Multiple studies have shown an increase in the likelihood that adolescents will start to use alcohol, and drink more if they are already using alcohol. Additionally, increased television and music video viewing are risk factors for the onset of alcohol use in adolescents. Childhood exposure to media violence has a causal effect on aggressive behavior for some males and females. The effects are shown to be measureable, long lasting and can lead to emotional desensitization toward violence in real life. 54-60

Early and persistent antisocial behavior - Boys who are aggressive in grades K - 3 are at higher risk of substance abuse and juvenile delinquency. This increased risk also applies to aggressive behavior combined with hyperactivity or attention deficit disorder. This factor includes persistent antisocial behavior in early adolescence, like misbehaving in school, skipping school, and getting into fights with other children. Young people who feel they are not part of society, not bound by rules, and don't believe in trying to be successful or responsible, or who take an active rebellious stance toward society are at higher risk of drug abuse, delinquency, and school dropout. ^{8,18}

Friends who engage in the problem behavior - Young people who associate with peers who engage in problem behaviors — delinquency, substance abuse, violent activity, sexual activity, or school dropout—are more likely to engage in the same problem behavior. This is one of the most consistent predictors that research has identified. Even when young people come from well-managed families and do not experience other risk factors, just hanging out with friends who engage in the problem behavior greatly increases the child's risk of that behavior. 8,18

Favorable attitudes toward the problem behavior - During the elementary school years, children usually express anti-drug, anticrime, and pro-social attitudes. They have difficulty imagining why people use drugs, commit crimes, and drop out of school. By middle school, as peers participate in such activities, attitudes often shift toward greater acceptance of these behaviors. Youth attitudes (perception of minimal harm or risk) are a strong predictor of substance use involvement. ^{8, 18, 52}

Older physical appearance - Youth who appear older than most of their same-age peers are more likely to experience emotional distress, become involved in alcohol, tobacco and other drugs as well as engage in sexual activity before the age of 15. ^{1,6}

Paid work more than 20 hrs/week - Students who work 20 or more hours per week for pay during the school year were associated with higher levels of emotional distress, substance use, and earlier age of sexual debut. ^{1,6}

Perceived risk of an untimely death - Students who perceived their chances of dying before age 35 were more likely to experience emotional distress, be involved in violent acts, use alcohol, tobacco and other drugs as well as engage in early sexual experiences. ^{1,6}

Priority Risk & Protective Factors and their Indicators for Adolescent Substance Use in Alaska

The Alaska (Behavioral Health) Epidemiological Outcomes Workgroup (SEOW) was formed in 2007 to collect, analyze, and report substance use incidence, prevalence and other related data. An "influences subcommittee" was assigned to: 1) identify and prioritize the factors that influence substance use and abuse, and 2) identify existing and recommend new indicators to monitor over time.

Most states track substance use by monitoring data on consumption (e.g. 30 day use, binge use, ever use) or the consequences of use (e.g. drinking driving crashes, hospital visits, school suspensions.) Instead of tracking consumption and consequence data exclusively, the workgroup recommended that Alaska monitor the research-based influences that impact substance use, as well. Indicators for each of the priority factors are identified or recommended for development. (Some indicators are well established, others are in the developmental stages, as noted below.)

The indicators are <u>state and population-based</u>, the data may not be available for individual communities. Indictors may be <u>modified</u> for local prevention programs and services, as performance measures.

Protective Factors	Protective Indicators / Data source
Connection to Family	 Percentage of parents who are connected and involved in their children's lives¹.
	Percentage of students talk with their parents, at least weekly about school 2.
Connection to School	 Percentage of students who attend a school they feel is respectful and fair.³
	 Percentage of students who believe their teachers really care about them and give them a lot of encouragement.
Positive Connection to Other Adults	 Percentage of youth who have a positive connection with two or more adults outside of their home. 2.
Engagement in Meaningful Activities	 Percentage of students that participate in one or more organized activities outside of school. Includes: clubs, lessons, volunteering, or helping activities one or more times per week.
	Percentage of students who play on one or more sports teams in the past year. 2.
Social, Emotional/ Employability Skills	Percentage of students who feel they have "social, emotional & employability skills" 3.
Cultural Identity	Developmental Indicator Stage I (Loss of cultural identity can be a risk factor, see below)
Risk Factors	Risk Indicators / Data Source
Experienced child abuse (neglect, physical, sexual	 Percentage of mothers who report their child has (ever experienced), seen violence or physical abuse, in person. CUBS 2008
abuse)	Substantiated rate of Alaska children (ages 0-17) abused or neglected per 1,000 children OCS
Early initiation of	Percentage of students that have used either tobacco, alcohol or marijuana before
substances	the age of 13. ^{2.}
substances Death by suicide of a friend or family member	the age of 13. ^{2.} Rate of completed suicides among Alaskan's ages 15-24 per 100,000 ^{5.} Death rate of family members by suicide: Developmental Stage II
Death by suicide of a friend	the age of 13. ^{2.} • Rate of completed suicides among Alaskan's ages 15-24 per 100,000 ^{5.}
Death by suicide of a friend or family member Availability of alcohol and	 the age of 13. ^{2.} Rate of completed suicides among Alaskan's ages 15-24 per 100,000 ^{5.} Death rate of family members by suicide: Developmental Stage II Percentage of youth who got their alcohol from social sources (gave someone)
Death by suicide of a friend or family member Availability of alcohol and	 the age of 13. ^{2.} Rate of completed suicides among Alaskan's ages 15-24 per 100,000 ^{5.} Death rate of family members by suicide: Developmental Stage II Percentage of youth who got their alcohol from social sources (gave someone money to buy it or someone gave it to them). ^{2.}
Death by suicide of a friend or family member Availability of alcohol and other drugs Community norms and laws related to alcohol, drug use Loss of Cultural Identity	 the age of 13. ^{2.} Rate of completed suicides among Alaskan's ages 15-24 per 100,000 ^{5.} Death rate of family members by suicide: Developmental Stage II Percentage of youth who got their alcohol from social sources (gave someone money to buy it or someone gave it to them). ^{2.} Percentage of youth reporting it is easy (very or fairly) to get marijuana. ^{4.}

Data Sources: 1) NSCH AK; 2)YRBS; 3) SCCS; 4) NSDUH

Priority Risk & Protective Factors for Adolescent Substance Abuse in Alaska

Process of Identifying Statewide Priority Influences/Factors:

The "influences subcommittee" of the State (Behavioral Health) Epidemiological Outcomes Workgroup (SEOW) began with the adolescent population, while recognizing the significant need to look at younger and older populations as well. The risk and protective factor national research for adolescent substance use (and other risk behaviors) provided the working foundation. Additional factors were considered that had a strong research base of support. The priority factors were selected based on:

- Strength of the research base (a minimum of two studies in peer reviewed journals)
- Relevance to Alaska communities statewide
- Ability to change the factor through community and state partnerships
- Readiness of Alaska communities to address the factor

To assure a comprehensive review, we examined factors across the social domains (family, community, school, and individual.) The availability of the data <u>did not</u> exclude a factor, if it was considered to be of major significance to the Alaska population. For example, poverty is highly correlated with substance abuse, but not easily amenable to change. Through this process, five protective factors and five risk factors were prioritized. In addition, cultural identity or loss of culture was selected as factor having tremendous influence on one's sense of self and subsequent behavior.

Next, the group turned to identifying **population-based indicators** for each of the selected factors. This process was divided into:

- Factors with existing indicators and data;
- Factors with *some* indicators, but not reliable data at this point;
- Factors that remain of high significance without indicators or data, at this time.

Three factors (family violence, availability of alcohol, community norms and laws) have indicators needing further refinement and/or support for data collection. Two factors (connection to family, cultural identity) do not have indicators at this time. The subcommittee urges the state to partner with interested organizations to further define indicators and develop accurate measurement tools for both of these factors.

Although the indicators are population-based Alaska measures, they are not meant to take precedent over community or program-based measures. This is important to note so that community planning efforts to deliver programs and services continue to be community-driven. The identified indicators reflect the need for a consistent source of population-based data that can be monitored over time across Alaska. Other community and program-based indicators continue to be developed and provide further support for advancing our efforts for data collection and evaluation in Alaska.

While the identified factors are based on research associated with adolescent problem behaviors, many of the factors have implications for adult and older populations as well. A review of the literature was not conducted specifically for adults and may need additional scrutiny and peer review to determine both the availability and reliability of the research. Research on loss of culture and cultural identity was more thoroughly reviewed to apply across the lifespan, to children, youth and adults, and is cited here. Unfortunately, indicators in this area are difficult to locate, although promising as new measures are being developed.

In closing, two studies found the presence of both protective factors: family support and school support in adolescents who have been physically abused will reduce the likelihood of a suicide attempts more than the mere removal of the risk factor of substance use (e.g. alcohol, drugs) regardless of gender. ^{7,46} While communities must continue to reduce the factors that put children at risk, these studies point to the powerful impact protective factors can play in helping children cope with life experiences, they have no control over.

The report, Influences on Substance Abuse in Alaska, was further reviewed by the data analyst for the Division of Behavioral Health, as well as the <u>full</u> State Epidemiological Outcomes Workgroup. The full report and the state data supporting each indicator may be downloaded at http://hss.state.ak.us/dbh/prevention/publications

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