CREATING A RISK INDICATOR MAP FOR ADOLESCENTS OF PASCO COUNTY

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- University of South Florida Institute for Translational Research in Adolescent Behavioral Health
- University of South Florida, College of Public Health
- University of South Florida, College of Behavioral & Community Sciences
- BayCare Behavioral Health and Pasco County Public Schools' District (*Office for Student Support Services and Programs*).





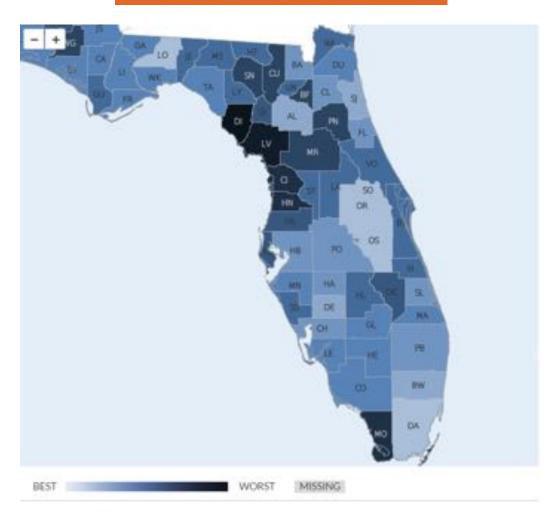


Background





County Health Rankings & Roadmaps Building a Culture of Health, County by County







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Rank 🔻	County
1	St. Johns (SJ)
2	Sarasota (SS)
3	Seminole (SO)
4	Martin (MA)
5	Collier (CO)
6	Nassau (NA)
7	Chiefotte (CH)
8	Monroe (MO)
9	Palm Beach (PB)
10	Alachua (AL)
11	Clay (CL)
12	Broward (BW)
13	Summer (ST)
14	Santa Rosa (SR)
15	Manatoe (MNI)
16	Flagler (FL)
17	Lake (LA)
18	Okaloosa (OL)
19	Brevard (BV)

County I	Demogr	anhics	4

		Pasco County	Trend Ø	Error Margin	Top U.S. Performers (0)	Florida	Rank (of 67
Health Outcomes							37
Length of Life							40
Premature death		8,200	100	7,900-8,500	5.200	6,800	
Quality of Life							24
Poor or fair health	0	15%		15-15%	12%	18%	
Poor physical health days	0	3.7		3.5-3.8	2.9	3.9	
Poor mental health days	0	3.9		3.7-4.0	2.8	3.9	
Low birthweight		8%		8-9%	6%	9%	
Additional Health Outco	imes (no	t includ	ed in over	rall ranking)	+		
Health Factors							25
Health Behaviors							21
Adult smoking	0	17%		17-18%	14%	18%	



Do the substance abuse and mental illness prevention and outreach services conducted by Pasco County Schools and BayCare Behavioral Health match the level of risk of the community in which they are implemented?





To utilize local data indicators and qualitative research methods to guide Pasco County Schools and BayCare Behavioral Health in the creation and validation of a local risk indicator map that measures risk for poor behavioral health among Pasco County youth in middle and high school.



ISE RISK MAP- TEMPLATE 1.0

Zip Code	33525	33525	33525	16346	14653	346.2.9	146.29	34530	34654	14154	1463	14655	14510	10545	050	11545	33542/4		ter verage	Average	Wu Thas A	
City	C	ade Cr		Hallotay	Hart	-	- 4.0				-		Port	We	day Chu	spet	294	1	1		4	5
HHIstone		\$43,16	3	\$44,188	\$49	.651	\$84	407		34	1,207	6 6	\$50,090		\$82,37			\$84,407	\$68,215	\$\$2,024	\$41,109	\$30,1
Absent 210% + 220%	27%	16%	24%	196	24%	246	3%	10%		164	104	3%	16%	12%	914	94	12%	530%	11% - 14%	15%	16N - 19N	200
Absent 220%	1%	1%	1%	214	414	-414	214	3%		1%	2%	1%	2%	2%	2%	2%	2%	05	1%	2%	3%	-
Minority Rate	44	67	37	39	18	32	32	36		28	25	-24	35	45	45	36	35	2296-2296	29%-45%	46%-59%	60%-76%	77K-
FreeLunch	78		44	27		74	31	27		-54	-46	28	24	53	22	44	4.5	25-21	32-48	49-64	65-79	47
Hope-Discouraged	25%	11%	16%	Law	18%	14%	13%	5%		\$7%	12%	3%	20%	12%	14%	9%	19%	dille	9%-12%	54N-17%	18%-22%	322
Well Being-Struggling	47%	29%	29%	31%	25%	32%	27%	22%		38N	27%	30%	37%	33%	31%	30%	42%	124%	24%-30%	30%+36%	37%+43%	1.44
Wett Being-Suffering	0%	19	4.96	214	- 29	3%	294	214		296	0%	0%	2%	1%	214	2%	256	1000	0%	2%	226	1000
Maitreatment SA-5	34	14	34	17.	17		1				34	7	100	1	4	1	24	0	1	2 to 15	16 to 32	33 10
Maitreatment 1965	-	-	- 4	14	12	11	2	4		12	17	6	28	2	1	2	32		1	2487	8 00 36	17 10
Maitreatment IS-S		- 8	. 8	11	4		5	1		. 6	13	2	82	1	121	1	14	0	1	2 10 7	81016	17 36
Mailtreatment PV-5	1	18	1.2	11	4		\$1	1		6	13	2	12	1	4	3	14	0	1	210.9	10 to 20	21.50
ALL	94	. 94.	. 94.	385	117	119	\$7	61		202	307	74	297	- 67	39	47	253		1	0 to 99	100 to 199	200 10
SA Treatment	131	131	113	333	84	205	48	12		157	810	112	367	29	37	29	237	-50	51-99	200-150	151-250	250-1
CCSU Admissions	41	62	63	94	53	60	56	82	110	115	131	94	206	41	-74	41	236	<25	26-50	\$1-100	101-190	185-1
Crime	438	48	418	165	\$50	513	540	427		275	883	827	2288	230	475	330	1248	73-288	209-504	\$05-716	717-912	913-2
Youth Baker Act		54								_	_		215				215	111	-			



Methods



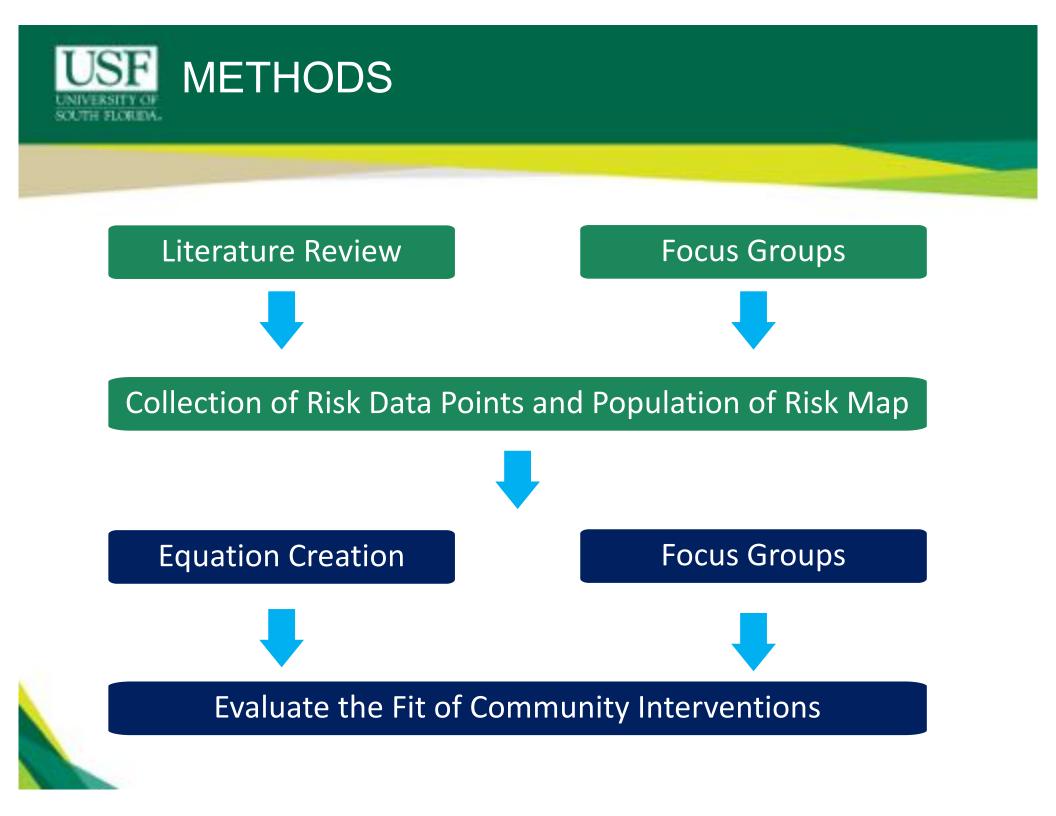




Mix of evidence and field-based knowledge

- 1. Empirical research
- 2. Focus Groups
- 3. Local data indicator population







1. Empirical Research

- What have other people done?
 - Keywords
 - Social indicators
 - Community level risk
 - Population health
 - Substance use
 - Mental illness
 - Behavioral health outcomes





2. Focus Groups

- 1. To conclude which indicators to use
 - To incorporate local expertise
 - Determine ways to collect data
- 2. To review the created risk map
 - Review for accuracy- did we miss anything?
 - Discuss usefulness of map





2. Focus Group Sector Composition

- Pasco Schools
- Behavioral Health
- Child Welfare
- Department of Juvenile Justice
- Homeless Coalition
- Health Department





3. Data Indicator Population

- Data derived from multiple sources
 - Public domain
 - Community partners





Results



USF LITERATURE REVIEW RESULTS

Literature review to determine indicators

- Priority on studies w/ factor analysis
 - Ryan et al. -Social indicators of substance abuse prevention: A need-based assessment.
 - Kreiner, P., et al. Social Indicator-Based Measures of Substance Abuse Consequences, Risk, and Protection at the Town Level.
 - Factors which are modifiable, easily retrievable
- Hawkins et al.
- Social Disorganization Theory
- Contagion Theory



I LITERATURE REVIEW RESULTS

Indicators from Literature

Median household income Child poverty Violent crime Infant death rate Non vote participation Non-English speaking rate Drop out rate Intention of college HS graduation rates MS graduation rates Grade school non- attendance Single parent Divorce rate Elderly living alone Standard suicide rate Non profit index Juvenile arrest data Youth alienation Youth apathy Deterioration of physical infra.



USF FOCUS GROUP RESULTS

• Focus Group 1: October

- Discussed the indicators identified in literature
- Used expertise of group to decide what to eliminate
- Discussed adding a wide range of indicators such as homelessness, parents on disability, household incarceration, **Baker act data, and SA admissions**
- Determined proxy measures for original indicators
- Focus Group 2: January
 - Discussed formatting preferences
 - Discussed adding more "silent indicators" for community partners' benefit



ISE FOCUS GROUP RESULTS

Final Indicators for Middle School Map

- Median income
- Child poverty (Free lunch at school)
- Adult Arrest Data
- Infant death rate
- Non-vote participation
- Non-English speaking rate
- No intention of college

- Grade school non- attendance
- Single parent households
- Suicide Ratio
- Juvenile arrest data
- Youth alienation
- Baker Act Data
- Adult SA Admissions
- Youth SA Admissions



USE RESULTS: DATA POPULATION

Final Indicators for Middle School Map

Indicator	Source
Median Income	2015 American Con
Infant Death Rate	Florida Department
Non-Vote Participation	Pasco County Super
Intention of College	Student Gallup Surv
Youth alienation	Student Gallup Surv
Grade School Non-Attendance	Pasco School Absen
Child Poverty	Schools Designated
Arrest Data	Pasco Sheriff's Offic
Non-English Speaking	ESOL
Youth Maltreatment	Department of Child
Single Parent Households	2015 American Con
Baker Act Data	Florida Mental Heal
Adult and Youth SA Admissions	Central Florida Beha

2015 American Community Survey (2015 ACS) Florida Department of Health – Pasco Pasco County Supervisor of Elections Student Gallup Survey Results Student Gallup Survey Results Pasco School Absenteeism rates Schools Designated as Title 1- Pasco Schools Pasco Sheriff's Office, 2015 ACS ESOL Department of Children and Family Welfare, 2015 ACS 2015 American Community Survey Florida Mental Health Institute Central Florida Behavioral Health Network, 2015 ACS

ISE RESULTS: DATA POPULATION

	Middle Schools	10	enter at	and the	and and the second	Contraction of the second	Contraction of the second	and and
	Zig Code	37.40	33542	0-91	11-21	12:31	315.55	38.55
	City		2epb	units.			Cu	ide City
	Median Income (\$)	42266	33078	42266	39048	35265	44382	44382
÷	Infant death rate (Per Sk)	0	4.9	D	20.8	0	0	D
	SA adult (Per 1k)	2.4	1.7	2.0	2.1	2.8	4.0	4.0
COMM	Adult Arrest rate (Per 1k)	16	20	16	22	3	19	19
	Non-vote participation (%)	44.39	44.37	44.59	44.79	44.60	44.80	44.80
	Intention of college/hope (%)	44	44	52	52	52	52	49
	Grade school non- attendance (N)	16.60	16,60	9.80	9.80	9.80	9.80	14.20
school	Child poverty (%)	77	77	68	68	68	68	74
set.	Non-English speaking (N)	2	2	3	3	3	3	3
	Juvenile arrest data (Per 1k)	1.06	1.06	1.49	1,49	1.49	1.49	1.14
	Youth elienation [%]	21	21	12	12	12	12	15
ł.	youth maitreatment (Per 1k)	8.6	10.9	8.6	5	4.9	5.8	5.8
į	Single parent (%)	31.2	55.6	34.9	30.D	29.0	26.0	6.0
	Baker Act Data (%)	4.73	4.73	2.54	2.54	2.54	2.54	2.99
-	SA youth (Per 1k)	2.9	6.8	2.9	2.9	.4,6	1.6	3.6
	Total Risk Load							





	Middle Schools	10	Cand and	and of	Strand Bar	Stand Co	Stand Co	and the state
	Zip Code	335.40	335.42	335.40	13541	10523	33.2	15.2
	City		Zeph	Dade City				
	Median Income (\$)	42266	33078	42265	39048	35165	44382	44382
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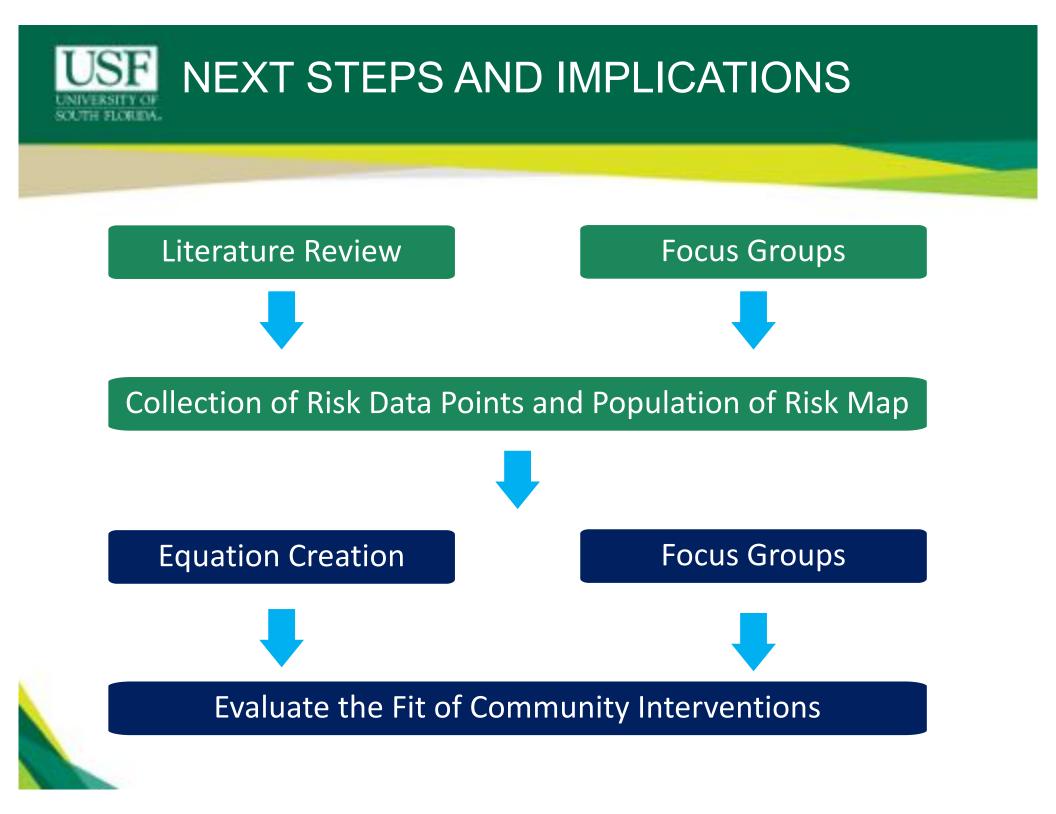
- Preliminary Findings from Risk Map
 - Median Income
 - \$31,620 in 34673 (PR) vs \$78,383 in 34638 (LOL)
 - Maltreatment Rates
 - 17.8 in 34652 (NPR) vs 0.2 in 33545 (WC)
 - Single unmarried mothers with children
 - 32% in 34653 (NPR) vs 12% in 34655 (NPR)
- Empirical evidence and focus groups largely supported the Risk Map 1.0



Next Steps and Implications









Phase II of Project

- Data analysis
- Focus Group 3 (& 4)
 - Make edits as necessary to weights and equation
 - Review results of map with algorithm; edit as needed
 - Discuss appropriate fit of services and interventions deployed in the community
- Review if services are appropriately administered
- Update every year





- Evaluation of implementation of services
- Assess high need areas for future grants- better planning for best fit
- Track population level outcomes
- Powerful visual to mobilize community leaders or decision makers









