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Florida Arts & Wellbeing Indicators

Your Hosts



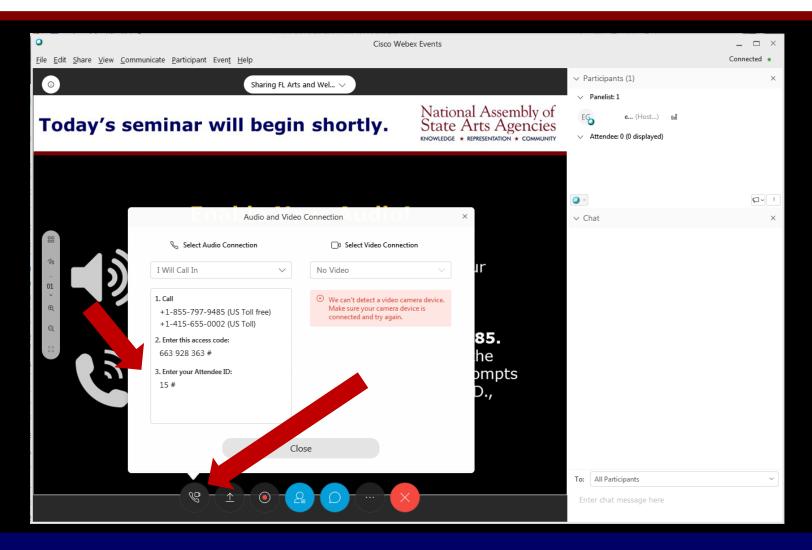
Eric GilesLearning Services Director



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Tech Tips

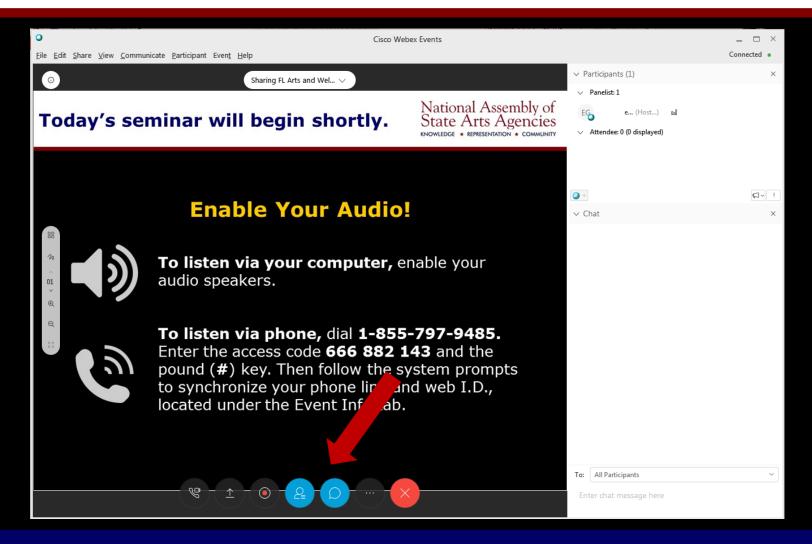




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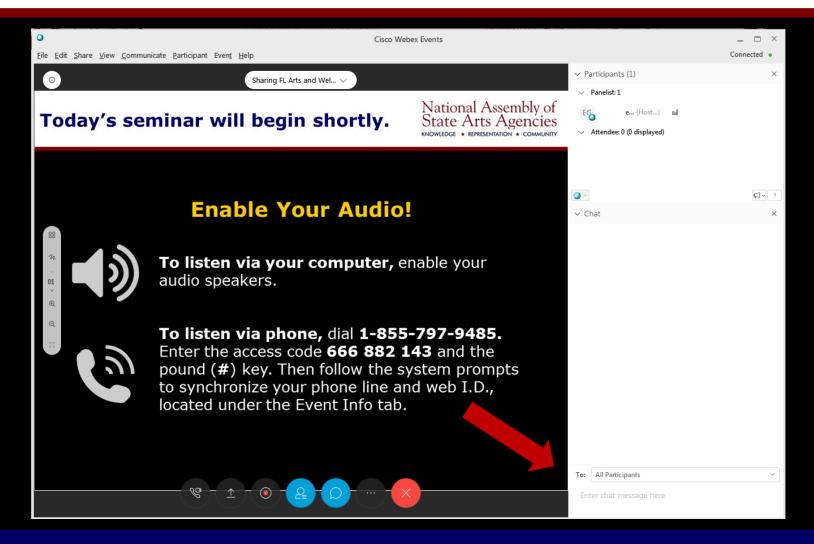




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Sandy Shaughnessy

Division Director Florida Division of Cultural Affairs

Florida Department of State Division of Cultural Affairs



The mission of the Florida Department of State Division of Cultural Affairs is to advance, support, and promote arts and culture to strengthen the economy and quality of life for all Floridians.

Our Strategic Plan

- Vision As a national leader, the Florida Department of State
 Division of Cultural Affairs cultivates vibrant and thriving
 communities where arts and culture are integrated into every
 aspect of life. Through broad collaborations, the Division
 stimulates and advances the creative economy, diversity, and
 well-being for all Floridians.
- Leadership/Direction To provide leadership that demonstrates the power of arts and culture as a resource for economic development and improving the quality of life.
- Partnerships and Collaborations How do we create more value and impact for our community and our industry through strategic partnerships?





Partnership with UF/Shands Arts in Medicine

- Relationship began in the early 1990s
- Based on the common goals of healthy communities and strengthening quality of life through the arts
- The Arts & Wellbeing Indicators project is a step toward strengthening our mission or fostering vibrant and thriving communities, and towards documenting that Florida's investments in the arts have positive health impacts on its communities.





Florida Arts & Wellbeing Indicators











Florida Arts & Wellbeing Indicators



Viddaparti

Mack

Lasopa

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Dr. Ferdinand Lewis

Our research team

Florida Department of State Division of Cultural Affairs



Mission: Advance, support, and promote arts and culture to strengthen the economy and quality of life for all Floridians.

Vision: ... [The Division] cultivates vibrant and thriving communities where arts and culture are integrated into every aspect of life. Through broad collaborations, the Division stimulates and advances the creative economy, diversity, and wellbeing for all Floridians.

Strategic Plan 2015-2020

Arts & Wellbeing Indicators Development: A Growing Trend Globally

- o Arts, Health & Wellbeing in America, National Organization for Arts in Health, 2017
- o Staying Engaged: Health Patterns of Older Americans who Participate in the Arts, National Endowment for the Arts, 2017
- o The National Endowment for the Arts Guide to Community-engaged Research in the Arts & Health, NEA, 2017
- o Arts & Wellbeing: Toward a Culture of Health, US Department of Arts & Culture, 2018
- o Mind, Body, Spirit: How Museums Impact Health & Wellbeing, Research Centre for Museums and Galleries, 2018
- o Creative Health: The Arts for Health and Wellbeing, UK All-Party Parliamentary Group, 2017
- o National Arts & Health Framework, Arts Ministers and Health Ministers of Australia, 2014
- o Creative and Cultural Activities and Wellbeing in Later Life, Age UK Policy and Research Department, 2018
- o The Arts Ripple Effect: Valuing the Arts in Communities, Arts Victoria, 2014

Arts & Wellbeing Indicators Development: A Growing Trend Globally

- The Wellbeing Project: City of Santa Monica and the RAND Corporation
- Soul of The Community: Knight Foundation
- Community Wellbeing Indicators: City of Sydney, Australia
- The Social Wellbeing of New York City's Neighborhoods: City of New York and University of Pennsylvania

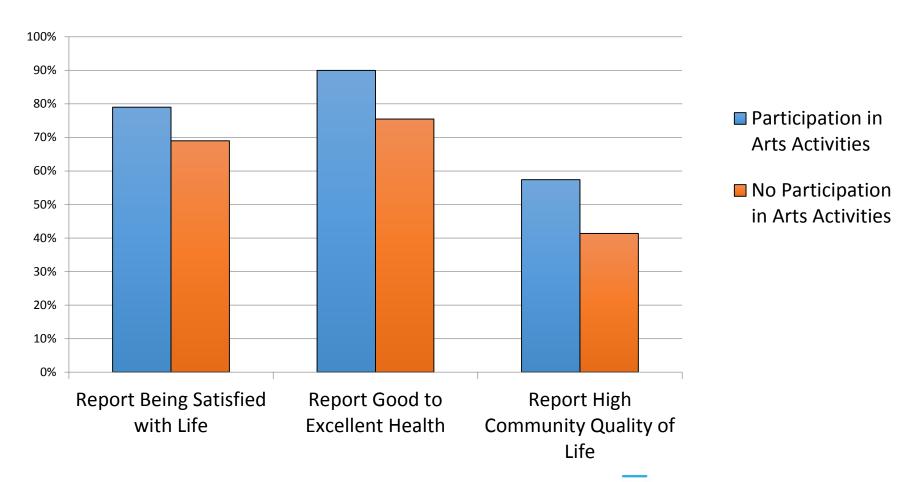


Year One

Indicators the evelop

- 70+ studies thoroughly evaluated
 - Methods, variables, sample, design, conclusions, limitations
- Pilot study
 - Survey questions tested (n=500)
- Primary Variables:
 - Arts
 - Health
 - Demographics
 - Community

Participation in the Arts: Life Satisfaction, Health Rating, and Community Quality of Life





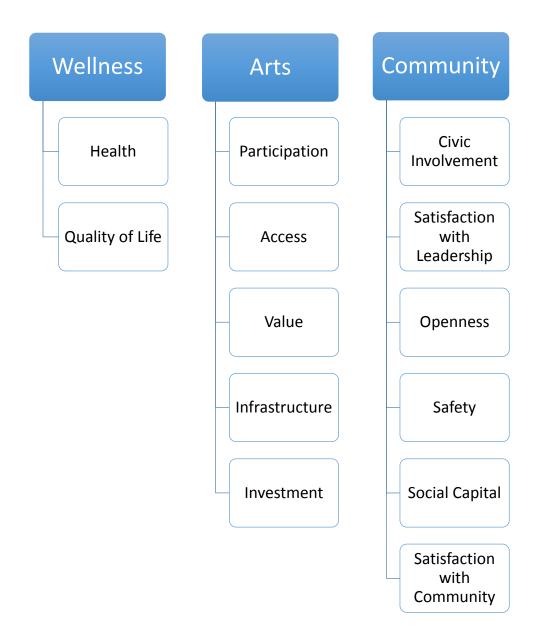
Year Two

Indicators

Goal: to develop and test an <u>efficient and affordable</u> means for applying the indicators at the county level

- Primary measures –tested and validated measures compiled into a single survey instrument
- Secondary measures identification of accessible data sets
- Focus groups for triangulation and qualitative layering
- Testing in three counties with arts & health partners
- Development of preliminary statistical model

Arts & Wellbeing Indicators



Year Three

Indicators

Goal: to provide and assist counties with an <u>efficient and</u> <u>affordable</u> means for applying the indicators

- One validated survey for collecting all primary data
- Testing of statistical model in seven counties; county and state-level analyses
- Testing in additional rural counties
- Development of Toolkits for Indicators use and data analysis
- Conclusions regarding usefulness and reliability of the model

Year Three

Sites esting

Test Counties:

- Broward
- Osceola
- Seminole
- Orange
- Putnam

• + Alachua & Miami-Dade

Year Three

Partners

- Orlando Ballet
- Orlando Philharmonic
- Orlando Opera
- Brazilian Voices
- Arts Council of Greater
 Palatka
- UF IFAS
- Florida Hospitals

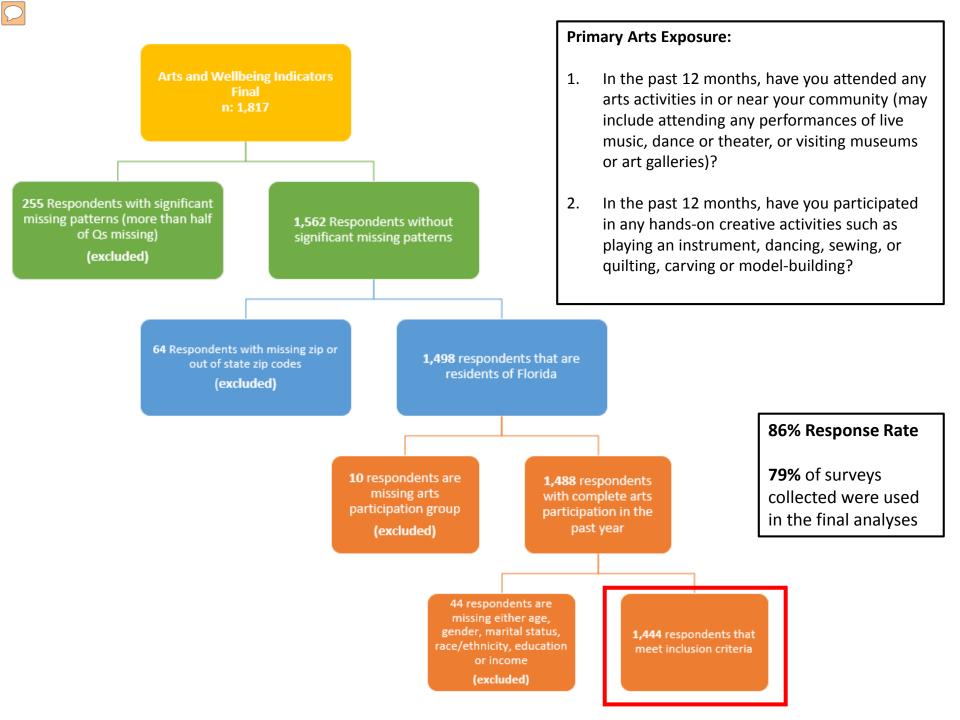
Surveying Methods

- In-person and online survey training sessions with partners
 - Best practices for recruitment
 - iPad setup
- Self-administered survey
 - Available in English and Spanish
- Modes of data collection
 - Electronic
 - iPad
 - E-mail
 - Facebook
 - Paper and Pencil
- Qualtrics as a centralized data management system

Costs

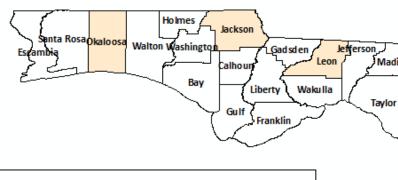
	Minimum Hours	Cost Estimate
Project/Data Manager	40	\$800
Surveyors, including training and data entry	50	\$700
Statistician	55	\$2,200
Materials (printing, t-shirts, 2 iPads, pens, etc.)		\$1,000
Social media advertising, boosting		\$400
Total	145	\$5,100

	Surveying Time	# Surveys Collected	Total Expenditures
Alachua County	64 hours, 8 minutes	364	\$7,813.87
Miami-Dade County	198 hours, 00 minutes	382	\$3,739.39
Lafayette County	27 hours, 30 minutes	14	\$366.30





Survey Participants by County of Residence (n=1,444)



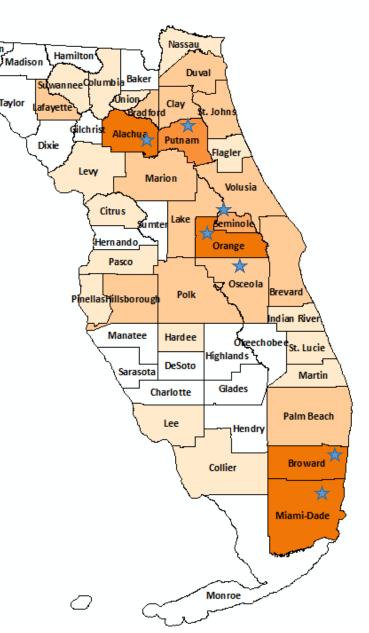
- Phase II target counties: Alachua and Miami-Dade
- Phase III target counties: Broward,
 Osceola, Seminole, Orange and Putnam

Frequency





154 - 305





Arts and Wellbeing Primary Data Analyses

Analysis 1

Chi square and Fishers exact tests were used to assess the differences among levels of participation in the arts by physical and mental health (assessed with PROMIS 10), personal well-being (SFS), sociodemographic variables, community vitality indicators and perception of access to the arts and health. Percentages and p values at the 0.05 level of significance are reported using SAS.

Analysis 2

Adjusted multinomial logistic regression model measured the association of participation in the arts (both formal and informal arts; informal arts only; formal arts only with no participation in arts as the referent group) with health as a four-level variable. In the model building process, socio-demographic variables and other community vitality indicators were adjusted for given the results from analysis 1. We report adjusted odds ratios (AOR) and 95% confidence intervals (CI), accounting for method and site of data collection using complex survey procedures in SAS.

Analysis 3

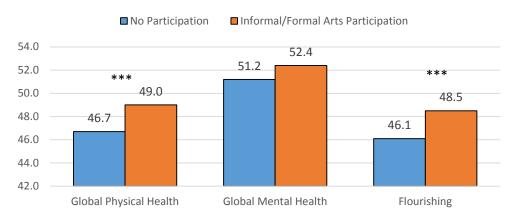
Crude and adjusted multivariate linear regression models measured the predicted influence of arts participation on Global Physical Health, Global Mental Health and Short Flourishing Scale scores. We report beta estimates, *p* values and R-squares, accounting for method and site of data collection using complex survey procedures in SAS.

emographics by participation in arts activities in Florida

%(SE)	Total	None	Informal Art Only	Formal Art Only	Both	p value
	n=1,444	n=150	n=71	n=283	n=940	
Gender						
Male	29.6 (1.2)	50.0 (4.1)	28.2 (5.3)	31.4 (2.7)	26.0 (1.4)	<.0001***
Female	70.4 (1.2)	50.0 (4.1)	71.8 (5.3)	68.6 (2.7)	74.0 (1.4)	
Age						
35 years or younger	30.5 (1.1)	34.7 (3.9)	35.2 (5.6)	18.0 (2.3)	33.2 (1.4)	<.0001***
36 to 59 years	41.1 (1.3)	48.0 (4.1)	35.2 (5.7)	44.5 (3.0)	39.5 (1.6)	
60 years or older	28.4 (1.1)	17.3 (3.1)	29.6 (5.4)	37.5 (2.9)	27.3 (1.4)	
Race/Ethnicity						
Non-Hispanic White	55.5 (1.1)	36.0 (3.8)	40.8 (5.8)	58.7 (2.9)	58.7 (1.5)	<.0001***
Non-Hispanic Black	6.4 (0.6)	14.7 (2.9)	14.1 (4.1)	5.7 (1.4)	4.8 (0.7)	
Non-Hispanic Other	8.2 (0.7)	10.7 (2.5)	12.7 (4.0)	5.3 (1.3)	8.3 (0.9)	
Hispanic or Latino	29.9 (1.0)	38.7 (3.9)	32.4 (5.5)	30.4 (2.7)	28.2 (1.3)	
Marital Status						
Never Married or not living	23.6 (1.1)	22.7 (3.4)	21.1 (4.9)	20.5 (2.4)	24.9 (1.4)	0.4871
together						
Married or living together	65.2 (1.2)	65.3 (3.9)	67.6 (5.5)	68.2 (2.8)	64.0 (1.6)	
Divorced or Separated	8.4 (0.7)	8.0 (2.2)	8.5 (3.3)	10.2 (1.8)	7.9 (0.9)	
Education						
High School or Below	7.9 (0.7)	13.3 (2.8)	14.1 (4.1)	7.1 (1.5)	6.8 (0.8)	0.0006*
Some College or Graduate	50.0 (1.3)	54.0 (4.1)	50.7 (5.9)	48.8 (3.0)	49.7 (1.6)	
Some Graduate School or Post	40.0 (1.3)	28.0 (3.7)	32.4 (5.5)	40.6 (2.9)	42.2 (1.6)	
Graduate		, ,	, ,	, ,	, ,	
Income						
Below \$50,000	25.5 (1.1)	34.0 (3.8)	38.0 (5.7)	19.8 (2.4)	24.9 (1.4)	0.0107*
\$ 50,000-\$99,000	27.4 (1.2)	24.0 (3.5)	31.0 (5.5)	26.5 (2.6)	27.9 (1.5)	
\$ 100,000 and above	30.7 (1.2)	26.7 (3.6)	22.5 (4.9)	34.6 (2.8)	30.9 (1.5)	
Has Medical Insurance	91.8 (0.8)	89.3 (2.5)	90.0 (3.6)	92.9 (1.5)	92.0 (0.9)	0.5711
Had a routine physical examinations or health check-up in the past twelve months	82.8 (1.0)	80.7 (3.2)	71.4 (5.4)	90.0 (1.8)	81.8 (1.2)	0.0006*



Unadjusted Health and Flourishing by Arts Participation



Adjusted Multinomial Logistic Regression †	Formal and Informal	Formal Participation Only	Informal Participation
	Participation versus	versus None	versus None
	None		
	(n=940 vs. 150)	(n=283 vs. 150)	(n=71 vs. 150)
	aOR (95% CI)	aOR (95% CI)	aOR (95% CI)
Global Physical Health	1.03 (0.91-1.17)	0.97(0.85-1.10)	0.96 (0.82-1.11)
Global Mental Health	0.98 (0.88-1.09)	1.03 (0.92-1.15)	0.97 (0.85-1.12)
Short Flourishing Scale	1.01 (0.98-1.03)	1.00 (0.97-1.03)	0.99 (0.95-1.02)
Gender			
Female vs Male	1.98 (1.20-3.26)*	1.55 (0.91-2.64)	2.08 (1.00-4.31)
Age			
<=35 vs 60+	0.54 (0.26-1.09)	1.13 (0.45-2.82)	0.76 (0.42-1.37)
36-59 vs 60+	0.76 (0.42-1.37)	0.73 (0.40-1.34)	0.52 (0.22-1.24)
Race/Ethnicity ¹			1
NHB vs NHW	0.21 (0.09-0.51)*	0.35 (0.14-1.33)*	0.92 (0.31-2.69)
Hispanic vs NHW	0.63 (0.37-1.10)	0.74 (0.41-0.91)	0.91 (0.40-2.06)
Other vs NHW	0.59 (0.26-1.35)	0.47 (0.19-1.22)	1.47 (0.47-4.60)

[†] Adjusted for education, income, health check-up, personal and community quality of life, social capital, safety, openness, civic involvement and aesthetics

¹ NHW = Non-Hispanic, White; NHB = Non-Hispanic Black; Other, NH = Non-Hispanic



How do the arts and wellbeing indicators predict arts participation?

Adjusted Multinomial Logistic	Formal and Informal	Formal Participation	Informal Participation
Regression †	Participation versus	Only versus None	versus None
1108. 0001011	None		
	(n=940 vs. 150)	(n=283 vs. 150)	(n=71 vs. 150)
	aOR (95% CI)	aOR (95% CI)	aOR (95% CI)
Do you think that the arts or creative activity			
currently contributes to your personal quality			
of life?			
Agree/Strongly Agree vs Disagree /Strongly	31.47 (11.58-85.48)***	12.71 (3.56-45.41)***	17.80 (3.75-84.55)*
disagree			
Neither vs Disagree /Strongly disagree	2.60 (0.87-7.77)	9.26 (2.47-34.75)	8.13 (1.61-41.04)
Do you think that the arts or creative activity			
currently contributes to your community's			
quality of life?			
Agree/Strongly Agree vs Disagree /Strongly	1.44 (0.47-4.40)	2.23 (0.66-7.52)	0.47 (0.12-1.89)
disagree			
Neither vs Disagree /Strongly disagree	0.42 (0.12-1.52)	0.29 (0.07-1.17)	0.29 (0.06-1.35)
Social Index			
4-7 vs 0-3 events	1.97 (0.93-4.18)	2.43 (1.05-5.58)*	1.07 (0.41-2.80)
8-10 vs 0-3 events	1.99 (0.84-4.75)	1.73 (0.67-4.50)	1.15 (0.36-3.66)
Safety			
Good/Very Good vs Bad/Very Bad	2.33 (1.06-5.14)	1.74 (0.75-4.04)	2.51 (0.89-7.12)
Neither vs Bad/Very Bad	3.11 (1.26-7.68)*	2.32 (0.89-6.08)	1.41 (0.40-4.99)
Civic Involvement Index			
Most/All vs None	5.11 (1.72-15.23)***	2.47 (0.83-7.36)	2.67 (0.66-10.89)
Some vs None	1.54 (0.53-4.48)	1.63 (0.56-4.70)	1.29 (0.34-4.96)

[†] Adjusted for PROMIS scores, gender, age, race/ethnicity, education, income, health check-up, openness and aesthetics.



How does participation in the arts predictively influence health?

Multivariate Linear Regressions		Crude			Adjusted*			ed (includin icipation gro	
Global Physical Health	β	Р	Model R ²	β	Р	Model R ²	β	Р	Model R ²
No Participation	-2.30	0.0012	0.007120	-2.30	0.0013	0.04794	ref	ref	
Informal Arts Participation Only	-2.47	0.0210	0.004096	-1.77	0.0805	0.04307	0.38	0.7506	0.05239
Formal Arts Participation Only	0.10	0.8545	0.000022	-0.39	0.4764	0.04131	1.78	0.0349	0.05239
Both Informal and Formal Arts Participation	1.38	0.0022	0.006255	1.59	0.0004	0.04902	2.64	0.0003	
Global Mental Health									
No Participation	-1.22	0.1116	0.001823	-1.30	0.0963	0.06575	ref	ref	
Informal Arts Participation Only	-2.98	0.0181	0.005344	-2.12	0.0749	0.06648	-0.85	0.5331	
Formal Arts Participation Only	0.44	0.4444	0.000394	-0.37	0.5105	0.06407	0.89	0.3243	0.06991
Both Informal and Formal Arts Participation	0.81	0.0998	0.001931	1.24	<.0001	0.06816	1.62	0.0421	
Short Flourishing Scale									
No Participation	-2.41	0.0010	0.007826	-2.00	0.0082	0.02432	ref	ref	
Informal Arts Participation Only	-2.28	0.0641	0.003472	-1.89	0.1275	0.02149	0.003	0.9981	
Formal Arts Participation Only	-0.62	0.2866	0.000877	-0.61	0.3081	0.01996	1.33	0.1371	0.02968
Both Informal and Formal Arts Participation	1.88	<.0001	0.01166	1.64	0.0010	0.02758	2.39	0.0020	

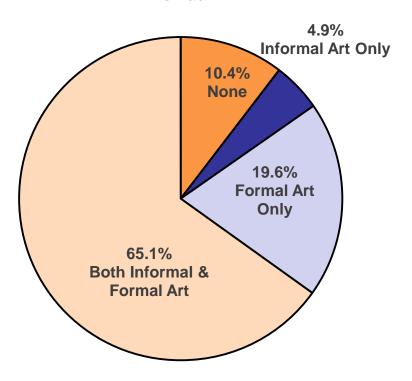
^{*}Adjusted for: Gender, Age, Race/Ethnicity, education, income, and health checkup in last 12 months. Based off global physical health and mental health t-scores.



Limitations

- Self-reported data
 - Potential issue of recall bias
- Sampling
 - Overrepresentation of those who participated in the arts
 - Emphasis on art-centric survey locations
- Association, not causal inference
 - We do not infer that arts participation enhances wellbeing or vice versa
 - Cannot assess temporality from crosssectional survey

Participation in Arts Activities in Florida





Generalizability

Survey Sample vs. Population	Indicators Survey	State of Florida		
		(Census 2017†)		
	(n = 1,444)	(n = 20,984,400)		
Gender, Female	70.4%	51.1%		
Race/Ethnicity				
Non-Hispanic White	55.5%	54.1%		
Non-Hispanic Black	6.4%	16.9%		
Hispanic/Latino	29.9%	25.6%		

†https://www.census.gov/quickfacts/fl

Points for Discussion

- Rural Communities
- Partnership for broader representative samples



Future Steps

- Additional data collection/survey implementation
- Dissemination:
 - Making the survey and toolkits freely available
 - Qualtrics survey collection forms, codebooks/data dictionary, SAS codes available by request



Resources

- Toolkits: https://arts.ufl.edu/academics/center-for-arts-in-medicine/researchandpublications/arts-wellbeing-indicators/
- Rural Prosperity Through the Arts & Creative Sector: A Rural Action Guide for Governors and States (NEA/NGA/NASAA), forthcoming in March 2019



What's on your mind?





Thanks for participating!

Questions or comments about this session?
Contact NASAA Learning Services Manager Eric Giles:
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Support from NASAA's member state arts agencies and the National Endowment for the Arts made this session possible.