

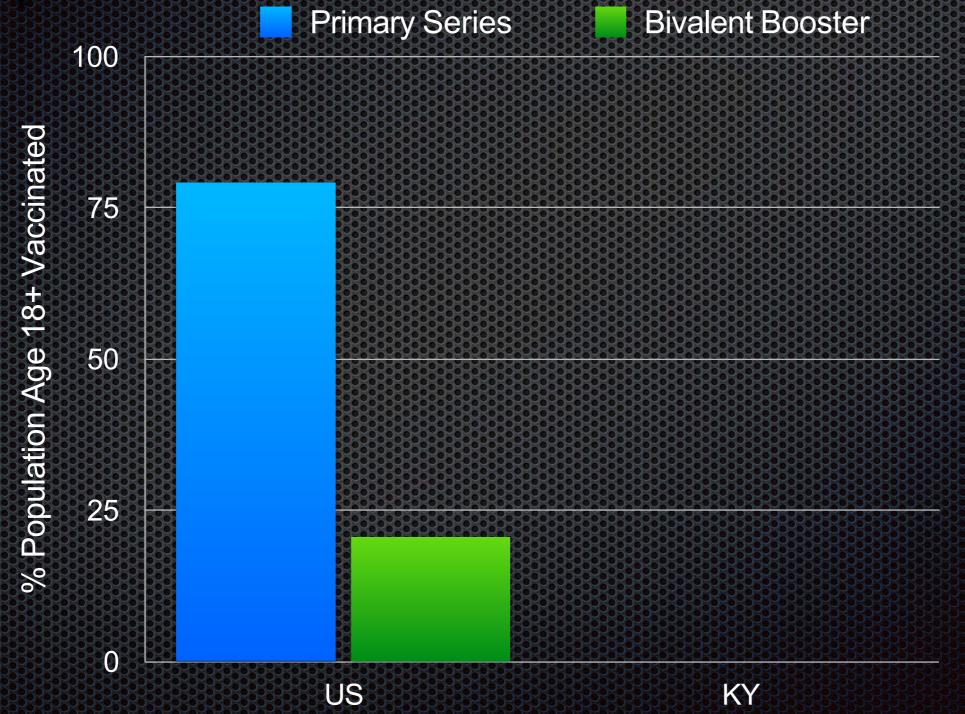
What drives Getting the Shot?

Understanding Individual and Community Predictors of COVID-19 Vaccination Uptake

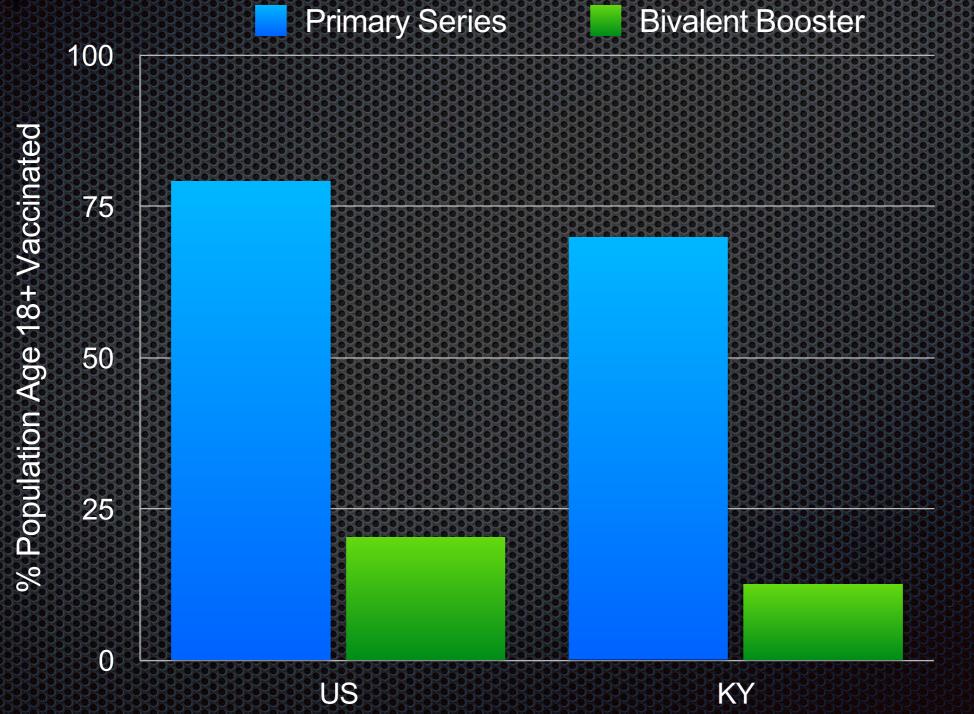
Marc T. Kiviniemi, PhD, CPH, FASBM University of Kentucky College of Public Health



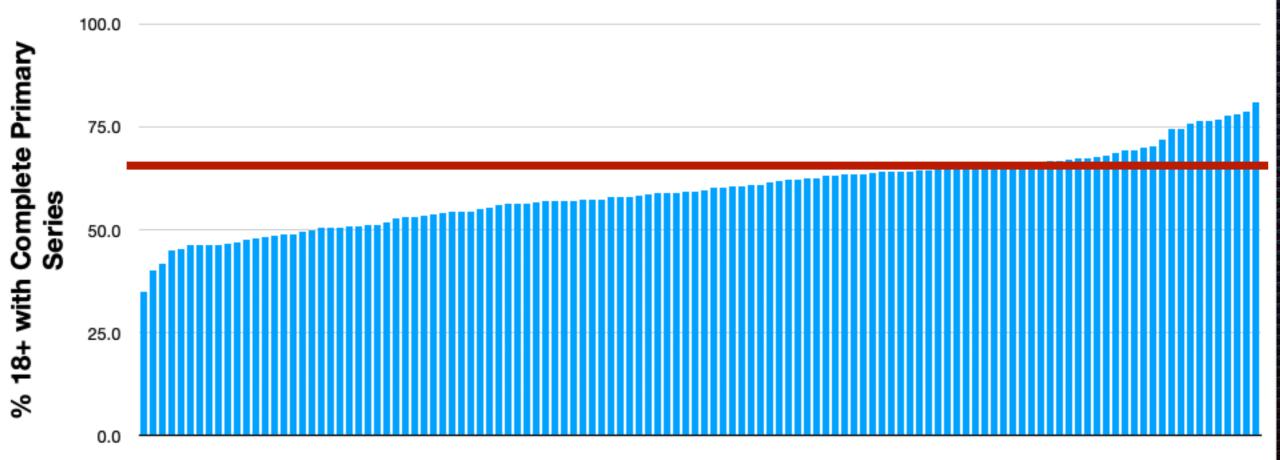
COVID-19 Vaccination Uptake



COVID-19 Vaccination Uptake



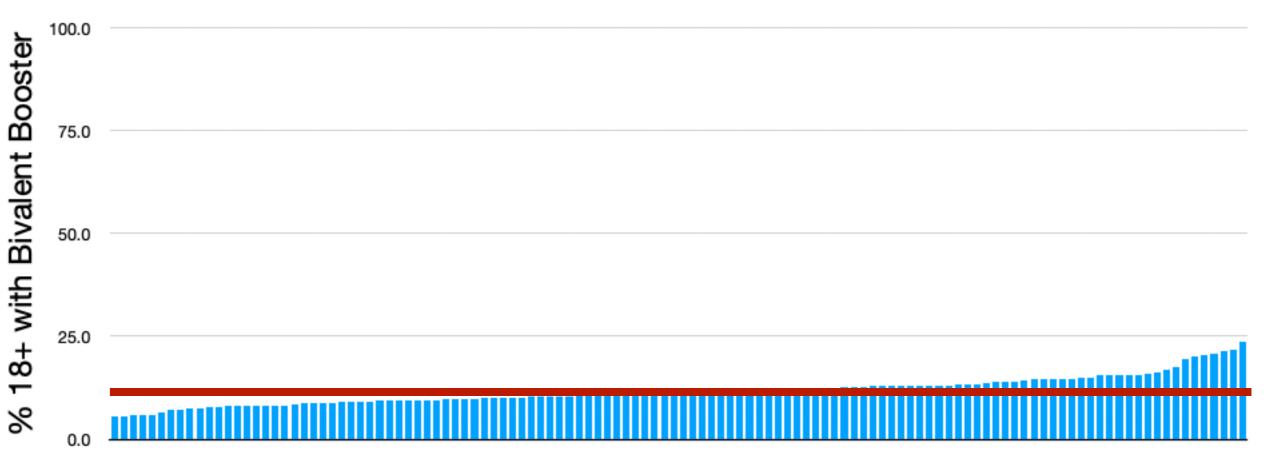
County by County....



KY Counties

County	Rate	County	Rate
Spencer	34.9	Campbell	76.6
Edmonson	40.2	Boone	77.6
Elliott	41.7	Fayette	78.1
Hickman	44.8	Woodford	78.6
Owen	45.3	Hardin	81.0

County by County....



KY Counties

Rate
20.4
20.8
21.3
21.9
23.8



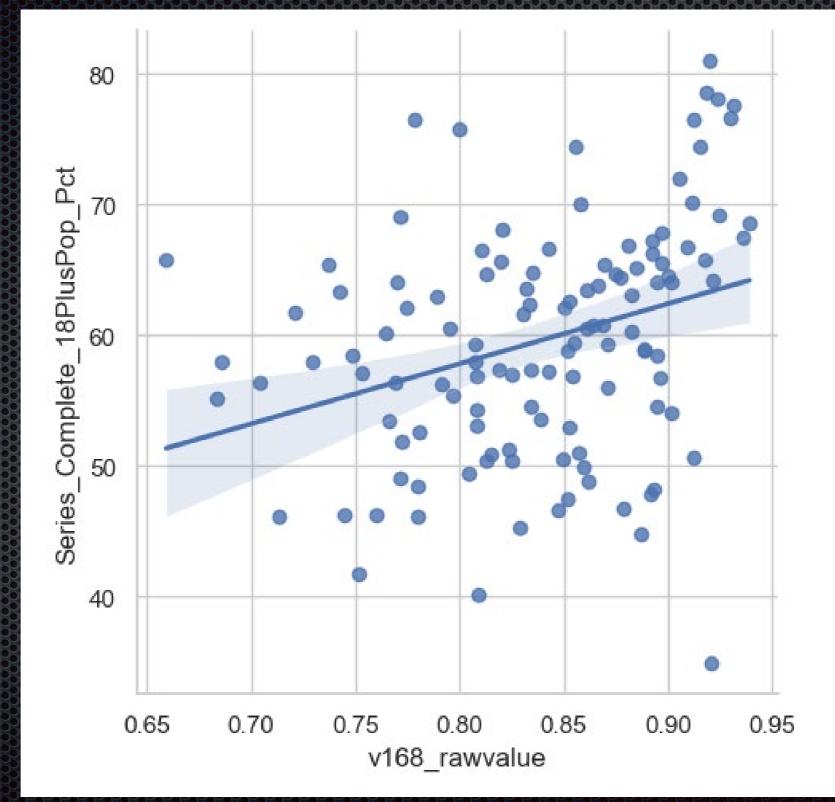
1) Community Level Influences

- CDC Vaccination Rates By County May 3, 2023
- RWJF National Health Rankings Data Sources

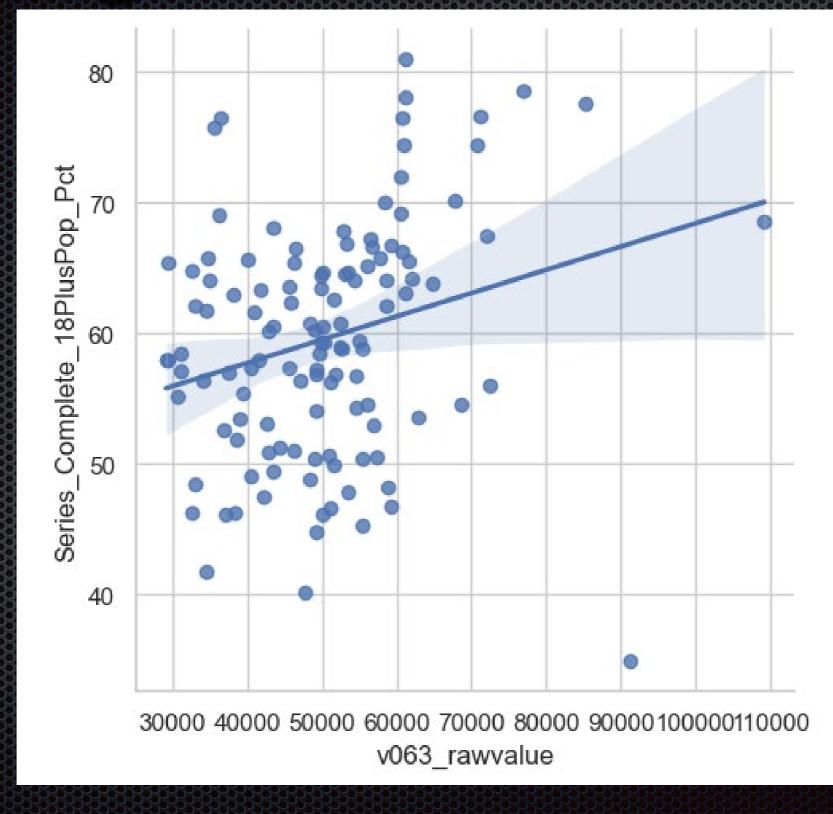
1) Community Level Influences

- CDC Vaccination Rates By County May 3, 2023
- RWJF County Health Rankings Data Sources
 - 1) Social Determinants: education, unemployment, ave income
 - 2) Health Care System: PCP/population, % uninsured, preventable hospital stays
 - 3) Other Health Factors: BRFSS poor/fair health, adult obesity
 - 4) Other: % Rural, % Voting Republican

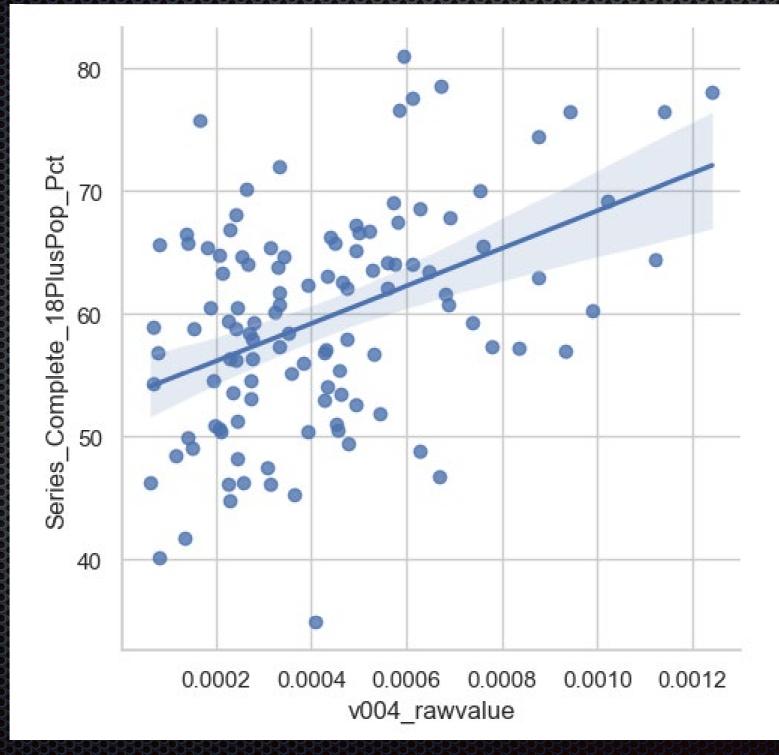
Education — HS Graduation



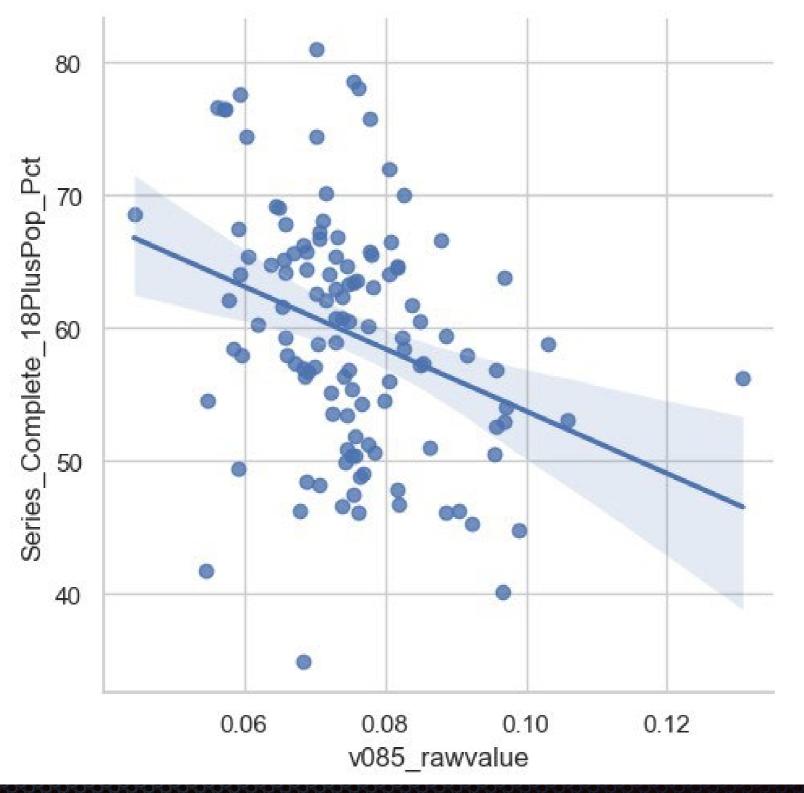
Average Household Income



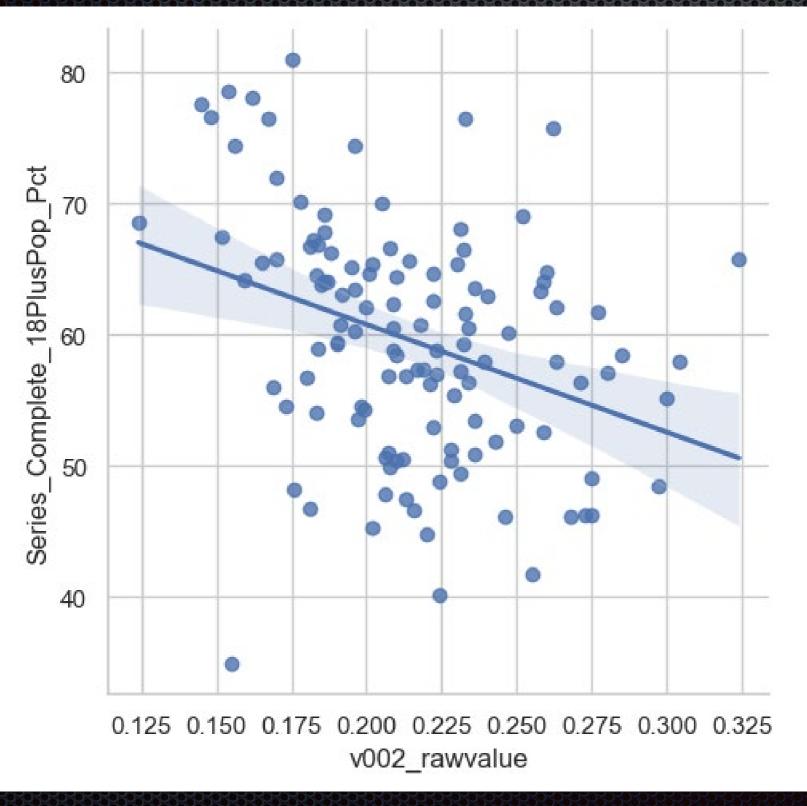
Primary Care / 100 population



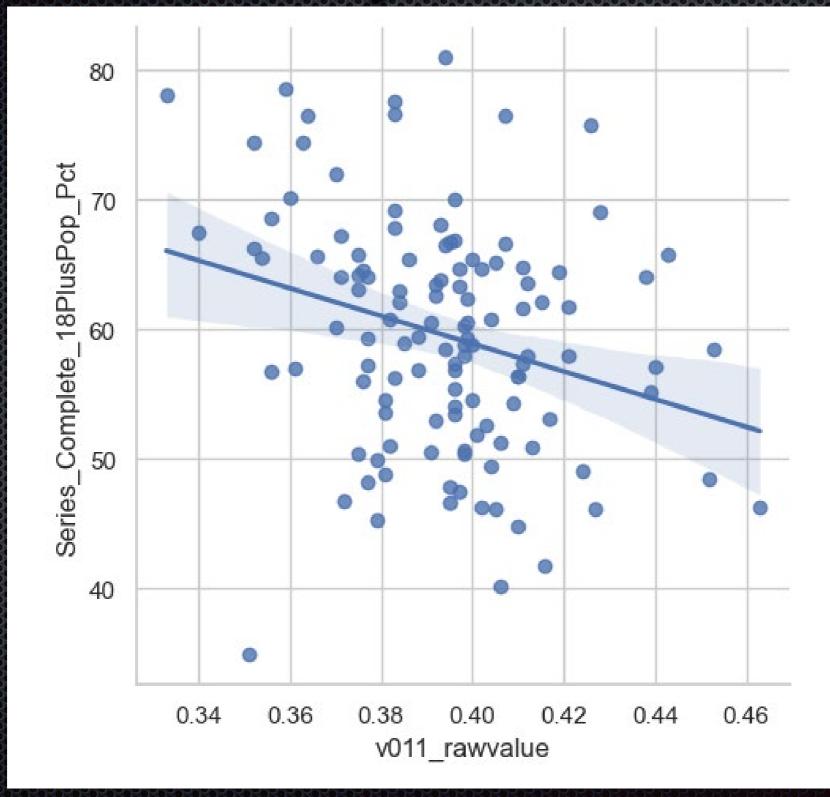
% Uninsured



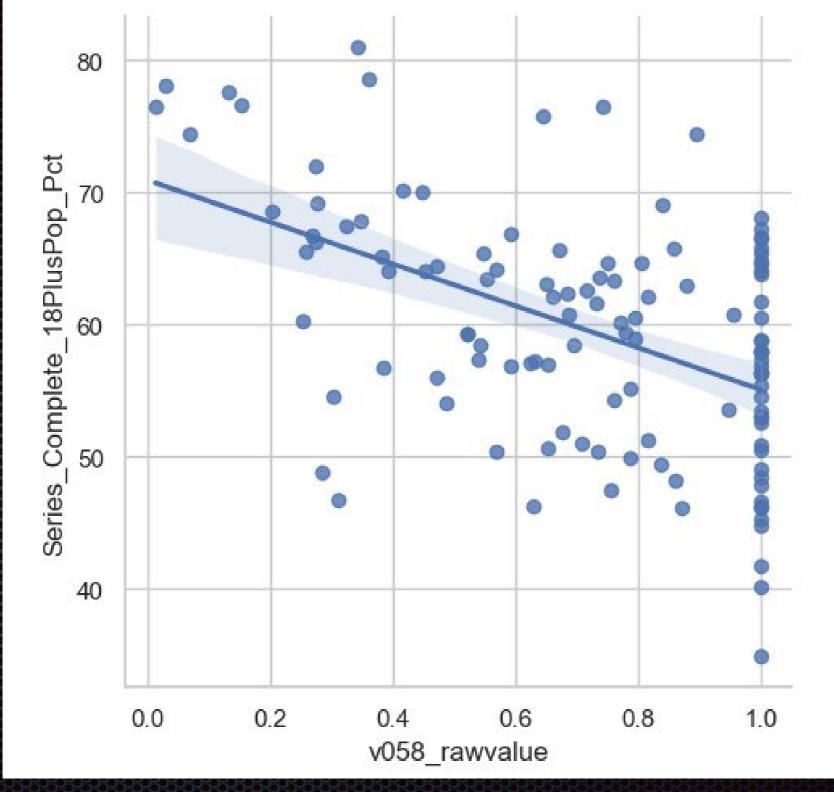
Poor/Fair Health



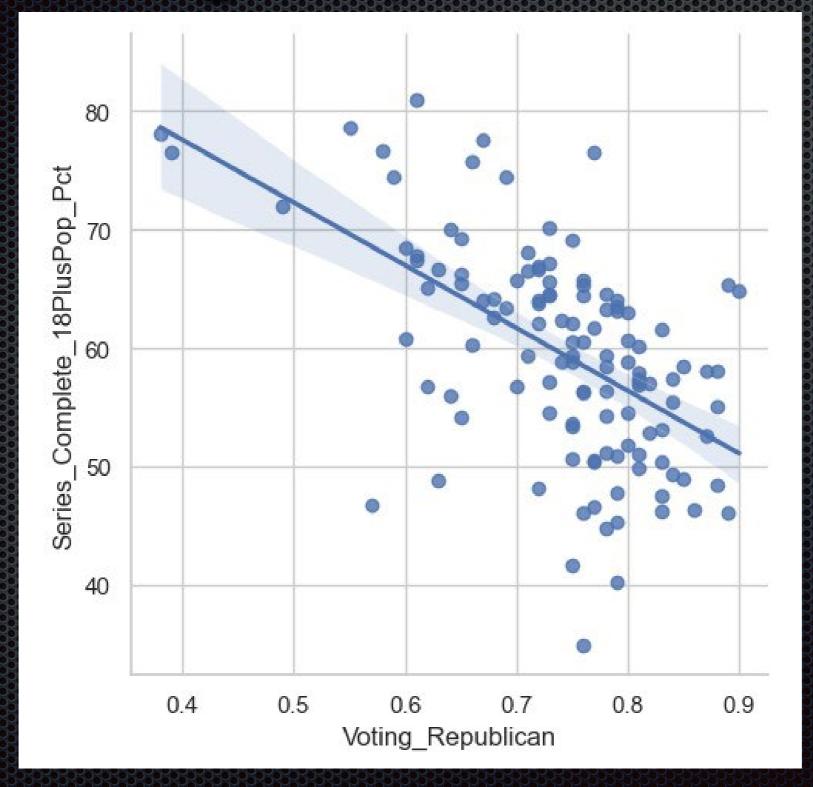
Adult Obesity



% Rural Population



% Voting Republican 2020



2) Statewide Vaccination Intentions Survey

Key survey Features

- Developed by UK input from KDOH, Governor's Office
- Fielded by IQS Research, partnership with Doe Anderson
- Survey administration dates Jan 26-March 20, 2021

Methodology

1459 respondents

Oversamples of African American/Black and Latino respondents

- AA/Black = 315
- Latino = 263
- For Latino, both English and Spanish surveys (94 completed in Spanish)
- IQS created survey weights for population representativeness on age, gender, and race/ethnicity

VACCINATION STATUS

- 11% report receiving at least one vaccine dose
 - Vaccine more likely: higher education, black/AA and Latino (vs White), have health insurance

VACCINATION STATUS

- Of those who received 1st dose, 85% definitely intend to receive the 2nd dose
 - 8% probably or not sure
 - 7% probably not or definitely not

 No real demographic predictors of 2nd dose intent (maybe student/homemaker/retired....)

What are Vaccination Intentions for the 89% unvaccinated?

- Vaccination intentions: SPECIFIC to COVID-19 vaccine
 - When a vaccine that protects against COVID-19 infection becomes available for you, will you take it?
 - 5 pt scale definitely no to definitely yes
 - How likely is it that you will get the COVID-19 vaccine when it becomes available for you?
 - 5 pt scale very unlikely to very likely

What are Vaccination Intentions for the 89% unvaccinated?

Measure	Definitely No/Very Unlikely	Probably Not/ Unlikely	l Don't Know	Probably Yes/Likely	Definitely Yes/Very Likely
Will you take it?	13%	14%	12%	23%	39%
How likely are you to take it?	20%	14%	10%	25%	31%

NATIONAL: 51% definitely, 26% probably (Census, Jan 27, 2021)

Vaccination Intentions + VACCINE HESITANCY

- VACCINE INTENTIONS COVID SPECIFIC
- VACCINE HESITANCY GENERAL TENDENCY
 - Have you ever refused or postponed a vaccine for yourself or a child because you considered it useless or dangerous?
 - Yes, No, Don't Know
 - 19% Yes or Don't Know ->> Vaccine hesitant

Vaccination Intentions + VACCINE HESITANCY

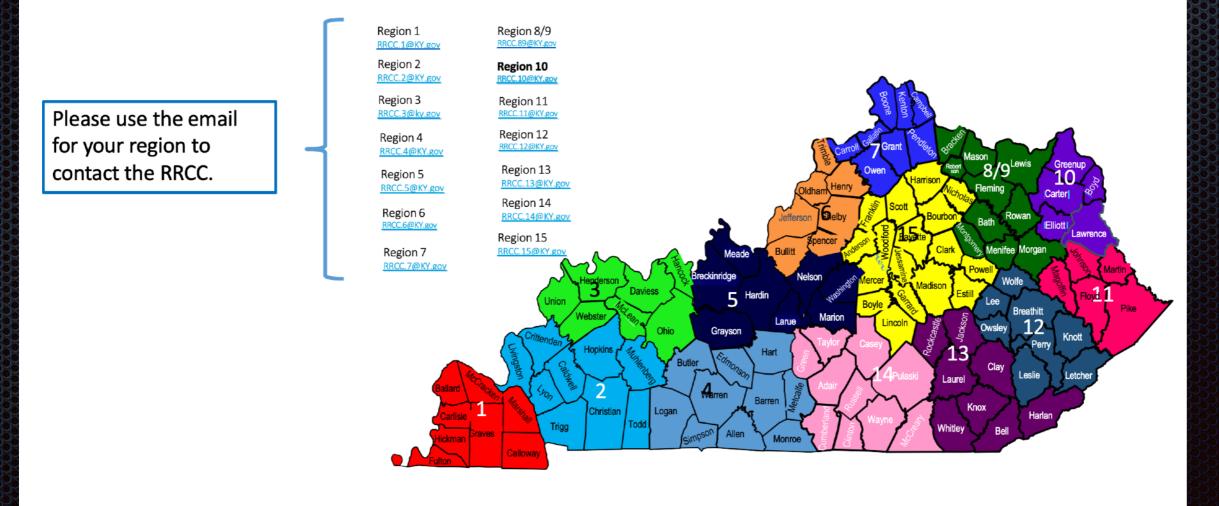
Measure	Definitely No/Very Unlikely				Definitely Yes/Very Likely
Not Hesitant	9%	10%	13%	23%	27%
Hesitant	8%	4%	3%	2%	1%

What are Vaccination Intentions for the 89% unvaccinated?						
Measur e	Dashbo fully o	39% + 12 bard for 18 dosed, 77 dose	8+: 69%	Probably Yes/ Yes/Ver Likely		
Will you take it?	13%	14%	12%	23%	39%	
How likely are you to take	20%	14%	10%	25%	31%	

Vaccine intentions Across the state

Regional Response and Coordination Center

14 Regional Response and Coordination Centers (RRCC) have been established across the state in order to support ongoing response efforts to COVID-19. These centers will serve to enhance planning, collaboration and information sharing with regional stakeholders, including all enrolled vaccine providers, to support equitable and efficient distribution of COVID vaccine and improved situational awareness at local, regional and state levels.



Vaccine intentions Across							
the state							
REGIO	INTENTION	REGION	INTENTION MEAN				
1	3.1	8/9	3.2				
2	3.3	10	3.0				
3	3.3	11	3.14				
4	3.5	12	3.6				
5	3.5	13	3.2				
6	3.8	14	3.1				
7	3.5	15	3.5				

Vaccine intentions Across the state

REGION INTENTION MEAN INTENTION MEAN REGION 3.1 3.2 1 8/9 3.3 3.0 2 10 3.1 3 3.3 11 4 3.6 12 3.5 3.2 5 3.5 13 6 14 3.1 3.8 7 3.5 15 3.5

Demographic Predictors of Intention

- EDUCATION: higher education, higher intentions
- RACE/ETHNICITY: black/African American < white; Latino > white
- INCOME: higher income, higher intentions
- POLITICAL AFFILIATION: Republicans < Democrats; Republicans somewhat < Independent/Other</p>
- RURALITY: more rural —> Lower intentions
- GENDER: Women < Men</p>
- (ALSO IN MODEL: insurance type, employment status)

Political Affiliation

 Political affiliation is a strong differentiator of vaccine intentions. Only 43% Republicans in Kentucky intend to vaccinate,, compared with 49% of independents/other parties and 65% of Democrats.

INTENTION	Republican	Independent/Other	Democrat
Intend <u>Not</u> to Vaccinate	40%	35%	19%
Uncertain	18%	16%	17%
Intend <u>To</u> Vaccinate	43%	49%	65%

Rurality

INTENTION	Metropolitan EMM (raw)	Semi-Urban EMM (raw)	Rural EMM (raw)
Intend Not to Vaccinate	28% (25%)	29% (30%)	36% (39%)
Uncertain	16% (15%)	22% (21%)	15% (17%)
Intend To Vaccinate	55% (59%)	48% (47%)	48% (44%)

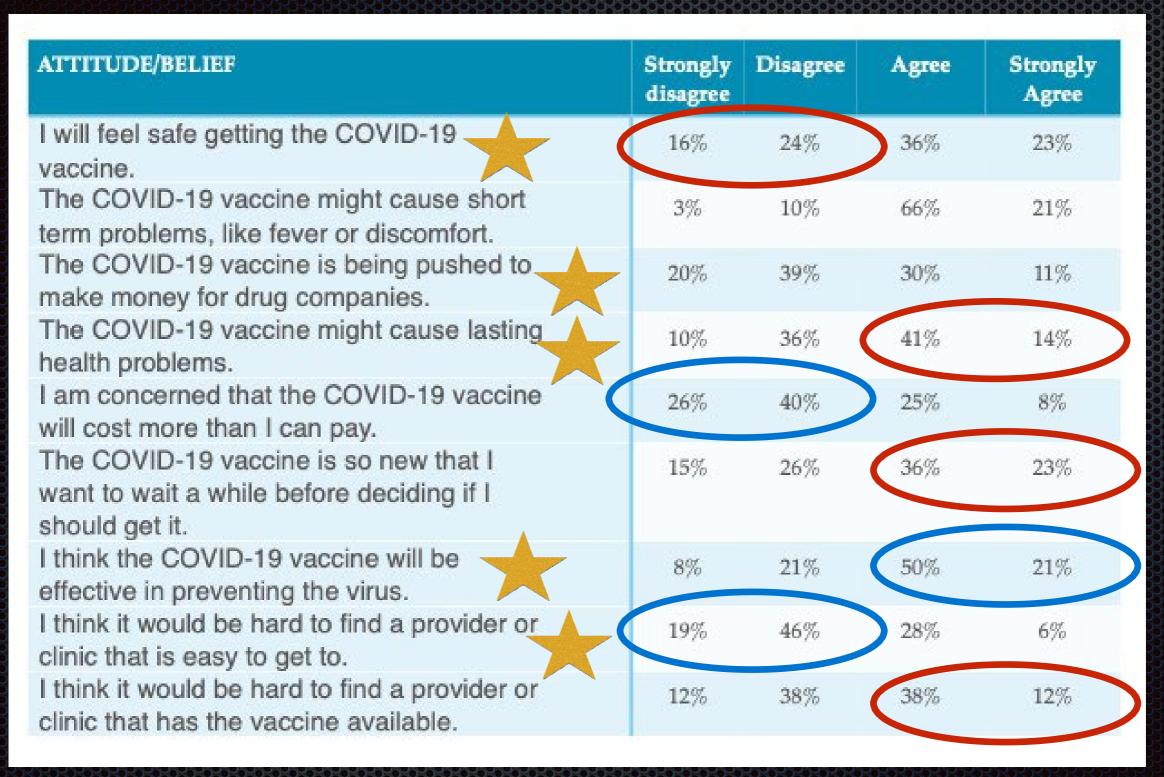
Beliefs

ATTITUDE/BELIEF	Strongly disagree	Disagree	Agree	Strongly Agree
I will feel safe getting the COVID-19 vaccine.	16%	24%	36%	23%
The COVID-19 vaccine might cause short term problems, like fever or discomfort.	3%	10%	66%	21%
The COVID-19 vaccine is being pushed to make money for drug companies.	20%	39%	30%	11%
The COVID-19 vaccine might cause lasting health problems.	10%	36%	41%	14%
I am concerned that the COVID-19 vaccine will cost more than I can pay.	26%	40%	25%	8%
The COVID-19 vaccine is so new that I want to wait a while before deciding if I should get it.	15%	26%	36%	23%
I think the COVID-19 vaccine will be effective in preventing the virus.	8%	21%	50%	21%
I think it would be hard to find a provider or clinic that is easy to get to.	19%	46%	28%	6%
I think it would be hard to find a provider or clinic that has the vaccine available.	12%	38%	38%	12%

Beliefs

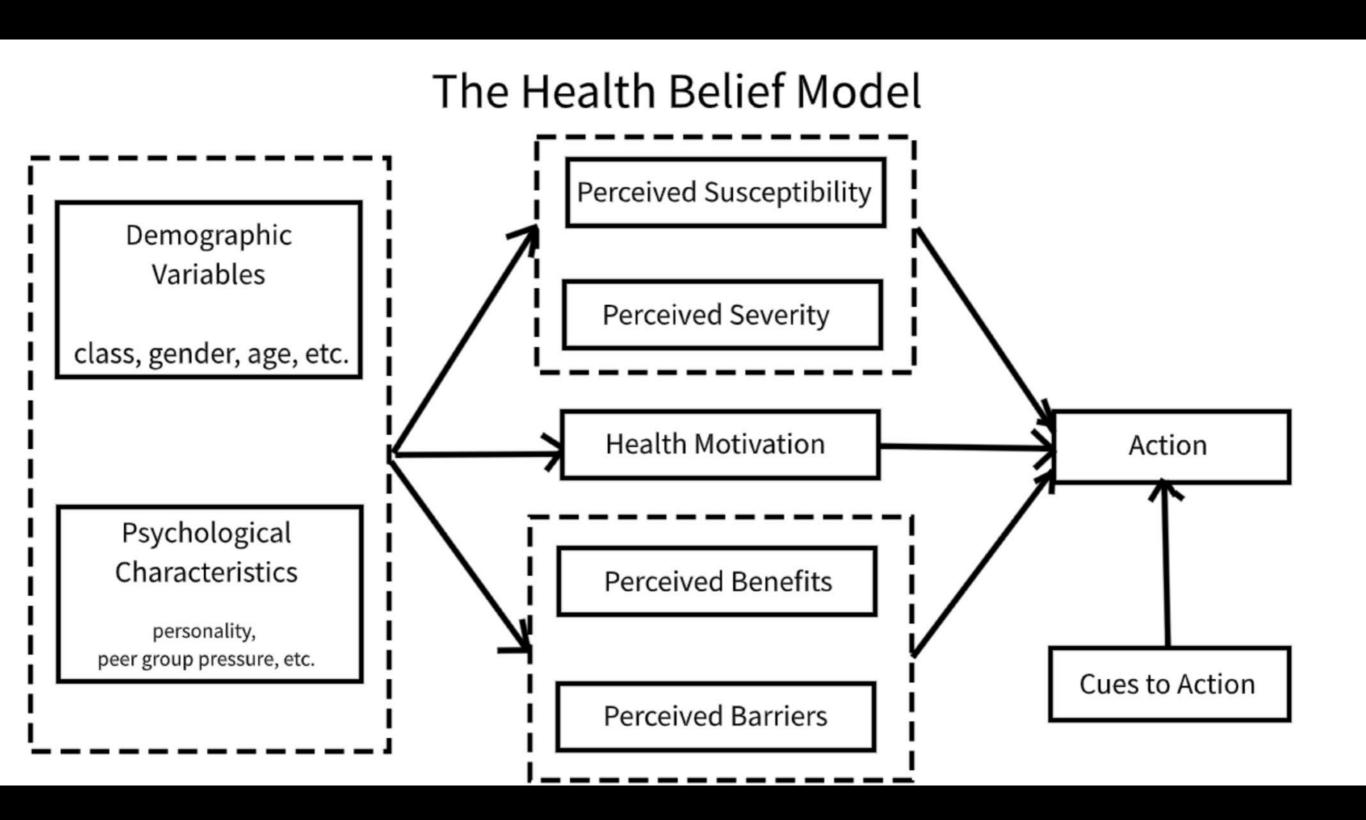
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Beliefs and behavior

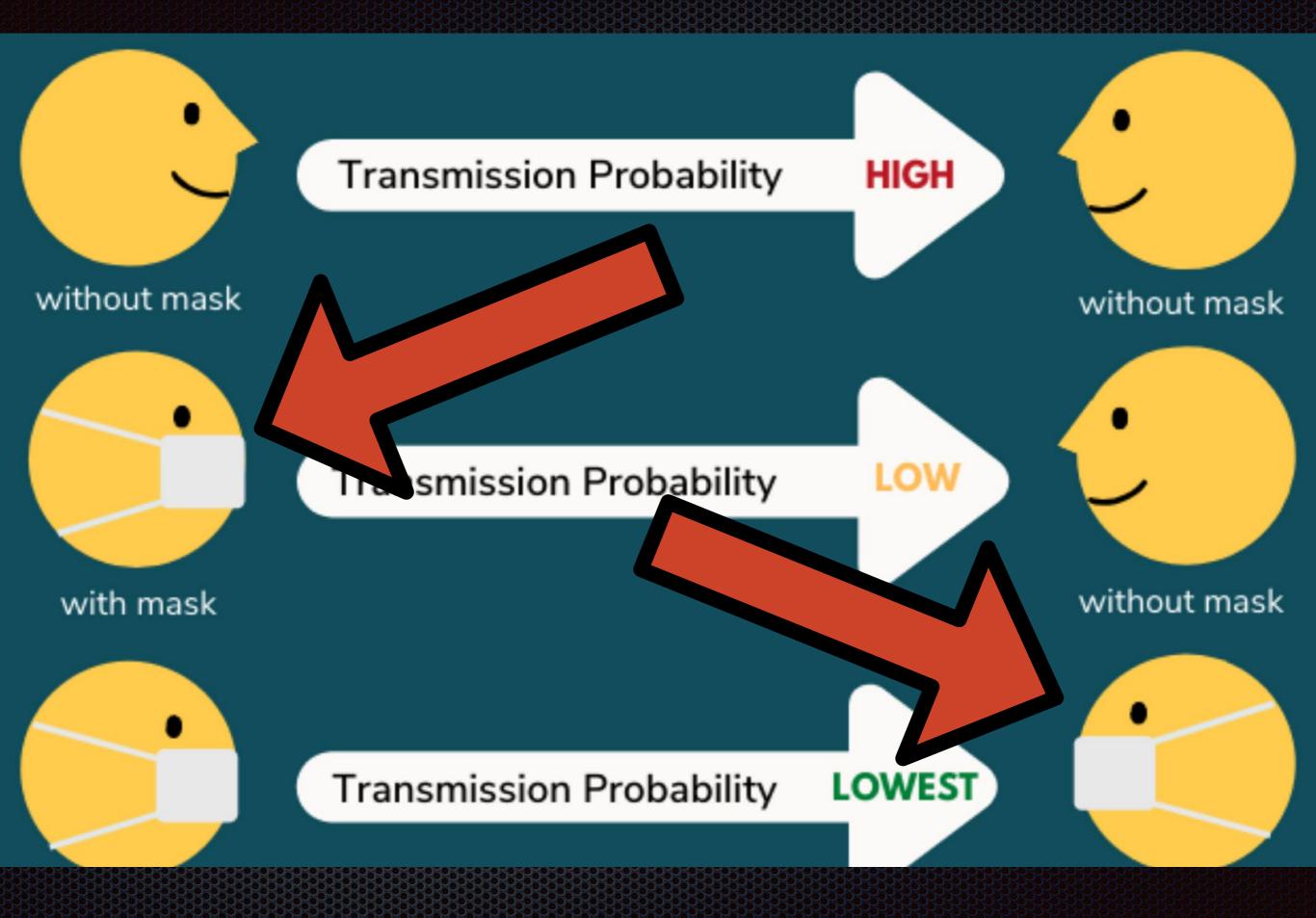


Perceived Risk

3) Types of Risk and Behavior







National Survey Study

July-August 2020

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- Risk Perception own risk, other people's risk
- Prevention behaviors wash hands, wear mask, etc.

Absolute Risk -Self



b = 0.94

Number of Preventive Behaviors

Absolute Risk -Other

Fear-Self

b = 0.72

b = **0.82*****



Fear - Other

