













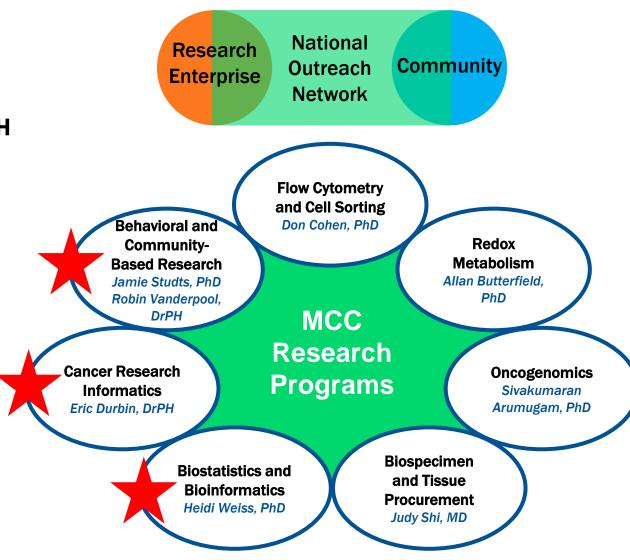
Population Health Assessment for Markey's Catchment Area

Robin C. Vanderpool, DrPH Bin Huang, DrPH

Admin Suppl Grantee Meeting February 24, 2017

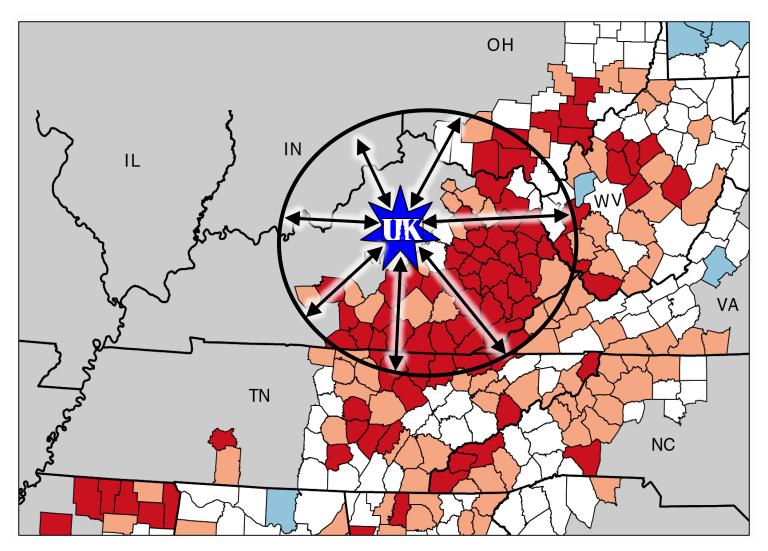
Markey Cancer Center Pop Health Team

- B. Mark Evers, MD
 - Cancer Center Director
- Robin Vanderpool, DrPH
 - Co-lead
- Meghan Johnson, MPH
 - Project Coordinator
- Mindy Rogers, BA
 - NON Community Health Educator
- Justin Levens, BA
 - REDCap Programmer
- Bin Huang, DrPH
 - Co-lead
- Quan Chen, DrPH
 - Biostatistician



Funding source: P30 CA177558-04S5

- Nationally, Kentucky ranks #1 in cancer incidence and mortality
 - Rates are highest in the 54-county region of Appalachian KY
 - 73% of the UK Markey Cancer Center catchment area is rural



Sample Sizes by Method and Strata

Method/Strata	# of Respondents	Response Rate	# of Households Selected
Probabilistic Sample	800	25%	3,200
Strata 1 (Codes 1-3, Metro)	160	30%	530
Strata 2 (Codes 4-5, Slightly Rural)	160	25%	640
Strata 3 (Codes 6-7, Rural)	280	25%	1,1,20
Strata 4 (Codes 8-9, Completely Rural)	200	22%	910
Convenience Sample	200	100%	200

N = 1,000



- 200 in-person surveys (community-based)
- Potential to add an internet-based panel
- English-speaking adults age 18+
- REDCap data entry



Eastern KY Walmart Stores



Poke Sallet Festival, Harlan KY

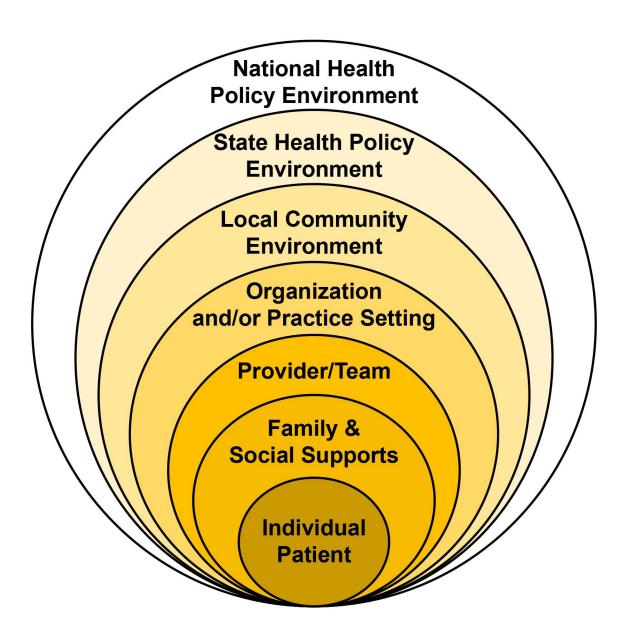


Hillbilly Days, Pikeville KY



Mountain Laurel Festival, London KY

Socio-ecological Framework (Taplin et al. 2012)



Planned Survey Items/Constructs and Sources

Core MeasuresWorkgroup

- Common sociodemographic questions
- Questions from each of the constructs common across 80% of the 15 projects

Rural Workgroup

- Rural identity
- Geospatial analysis

Constructs	Available Survey Items/Data Linkage Sources
Tobacco use (including e-cigarettes) and cessation - Smoking/tobacco use status - Cessation attempts and strategies - Perceptions of smoking	HINTS 1 and 2; HINTS 4, Cycles 3 and 4 2015 NHIS Cancer Control Supplement 2014 CDC BRFSS
 Lung cancer screening Chest x-ray, low-dose CT scan and frequency Provider recommendation Lung cancer knowledge and beliefs 	HINTS 1 and 2; HINTS 4, Cycles 2 and 4 2015 NHIS Cancer Control Supplement 2014 CDC BRFSS
Colorectal cancer screening - Blood stool test, endoscopy frequency - Provider recommendation - Colorectal cancer knowledge and beliefs	HINTS 1 - 3; HINTS 4, Cycle 1 2015 NHIS Cancer Control Supplement 2014 CDC BRFSS
Cervical cancer screening - Pap test frequency - Provider recommendation - HPV and HPV vaccination knowledge and beliefs	HINTS 4; Cycle 4 2015 NHIS Cancer Control Supplement 2014 CDC BRFSS
Breast cancer screening - Mammography frequency - Provider recommendation	HINTS 4; Cycle 4 2015 NHIS Cancer Control Supplement 2014 CDC BRFSS
Cancer information-seeking, internet use - Effort, confidence, trust, quality - Access, use of technology	HINTS 4; Cycle 4
Individual-level data: - Sociodemographics, BMI, social networks and cancer history	HINTS 2 and 4; Cycle 4 2014 CDC BRFSS
County-level data: - Census, population data and environment; hospitals and healthcare facilities; healthcare professions	HRSA AHRF and ACS
Community policies supportive of cancer control	KY Cabinet for Health and Family Services, KY Center for Smoke-Free Policy

Proposed Analysis Plan

- Compare measures between our Appalachian KY population (probabilistic sample) and the U.S. population from national/state surveys.
- Compare measures across the four geographic stratum in the probabilistic sample data.
- Compare measures between the probabilistic and convenience samples.
- Small area spatial analysis will be conducted for various measures.
- Based on respondents' county of residence, we will link our data with the Area Health Resources File.

Data Use Plans

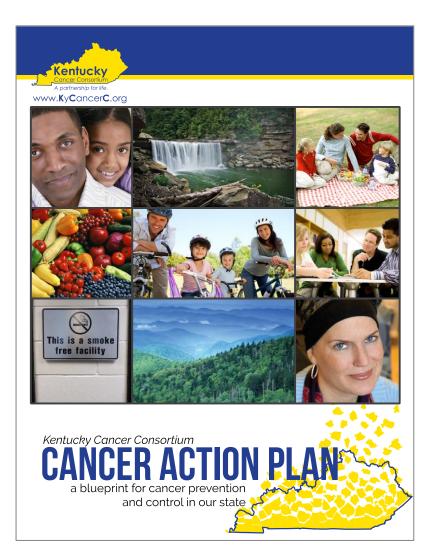
- Contribute to Markey's CCSG fall 2017 application for "Comprehensive" designation and current cancer center strategic planning efforts
- Presentations to KCP's Appalachian KY District Cancer Councils to help guide their local cancer control needs assessment, planning, and implementation efforts





Data Use Plans

- Inform Kentucky Cancer Action Plan and Kentucky Cancer Consortium efforts
- Results dissemination via reports, presentations and publications
- Inform future grant applications (methods and interventional)
 - Applied research in health communication, behavioral science
 - Community-based participatory research
 - Rural health survey methodology



MCC NCI Administrative Supplement 1-Year Timeline

Activities/Major Milestones	Sep – Nov 2016	Dec 2016 - Feb 2017	Mar - May 2017	Jun – Aug 2017
Survey design and development in consultation with NCI-assigned contractor	X	X	X	
REDCap programming	*	X	X	
Secure UK IRB approval	X	X		
Secure address-based sample from MSG	*		X	
Mailings: 1 st round, reminder postcard, 2 nd round		*	X	
Community-based, in-person data collection in Appalachian KY			X	X
Double, manual data entry of completed surveys		*	X	X
Data analysis and interpretation		*	X	X
Results dissemination (manuscripts, conference presentations, NCI grantee meeting, local DCC presentations)				X













Questions?

