



Using Social Network Analysis to Evaluate Your Hep B Coalition

September 21, 2017

Phone/Audio Option

Call-In #: (213) 929-4212

Attendee Access Code: 467-378-021

All attendees are muted.

Questions?



Questions? Submit questions in the chat box at anytime throughout the webinar.

Hep B United: A National Coalition



hepbunited.org



Dedicated to reducing the health disparities associated with hepatitis B by increasing awareness, screening, vaccination, and linkage to care for high-risk communities across the United States.

- 30+ local coalitions & national organizations that focus on the Asian American & Pacific Islander communities.
- Collectively screen over 20,000 people each year
- Voices for local and national advocacy
- Co-brand the multi-lingual Know Hepatitis B campaign with CDC

Expert Speaker



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The George Washington University

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WASHINGTON, DC

Using Social Network Analysis to Measure Coalition Collaboration: A Case of Community Roundtables

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September 21, 2017



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Learning Objectives

Define social network analysis (SNA)

 Describe ways to use SNA to monitor the development of relationships and improve program delivery

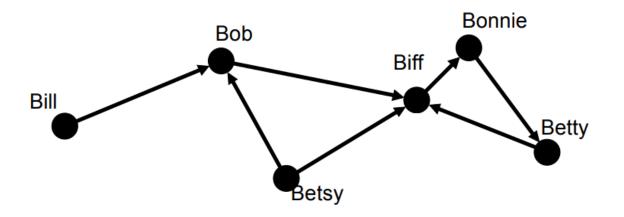






What is a network?

A set of nodes (individuals/organizations) with a set of ties (social relation) that link them



De Jordy, 2015.





Dr. Steve Borgatti



Photo courtesy of steveborgatti.com

Paul Chellgren Chair and Professor of Management University of Kentucky

https://www.youtube.com/watch?time_continue=43&v=kAN-E3u47ys





Basic assumptions of SNA

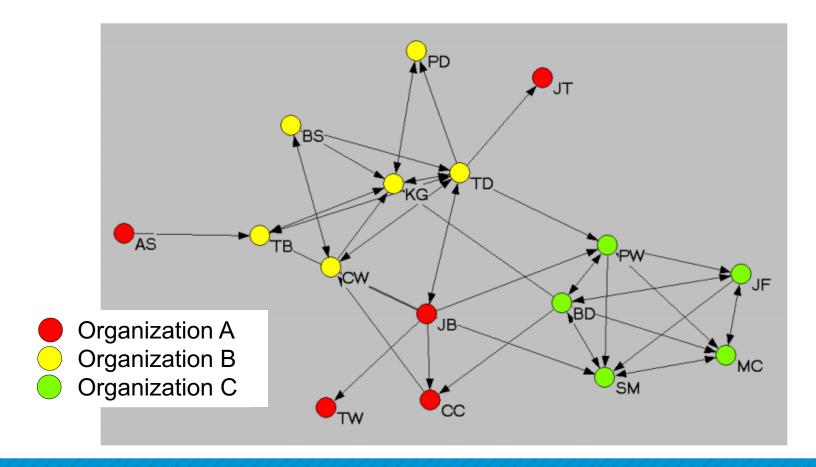
- People influence each other
 - Kinship: mother of; husband of
 - Roles: boss of; teacher of
 - Perceptual: knows; aware of
 - Affective: likes; trusts
 - Interactions: gives advice to; receives funding from; works with
 - Affiliations: belongs to the same organizations as; geographically near
- Ideas and materials flow through relationships
- Structure of relationships have consequences

Borgatti, 2002; De Jordy, 2015.





Communication flow in coalition network



Who are communication facilitators in the coalition network?

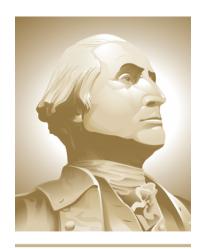
Who should you interview to assess areas for improvement in coalition communication?

Borgatti, 2002.





GW Cancer Center Cooperative Agreement with CDC



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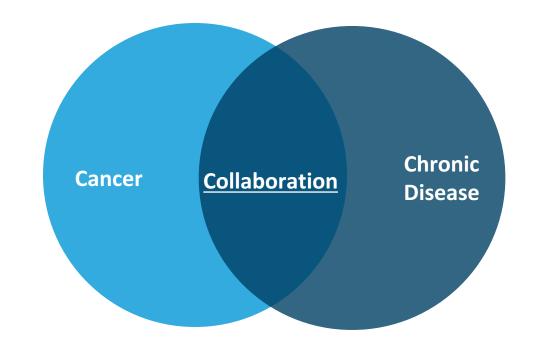
- <u>Title</u>: "Enhancing Implementation of Comprehensive Cancer Control Activities"
- <u>Timeframe</u>: 5 years (2013-2018)
- <u>Purpose</u>: Provide technical assistance and training opportunities to support National Comprehensive Cancer Control Program grantees and their partners
- Website: www.CancerControlTAP.org





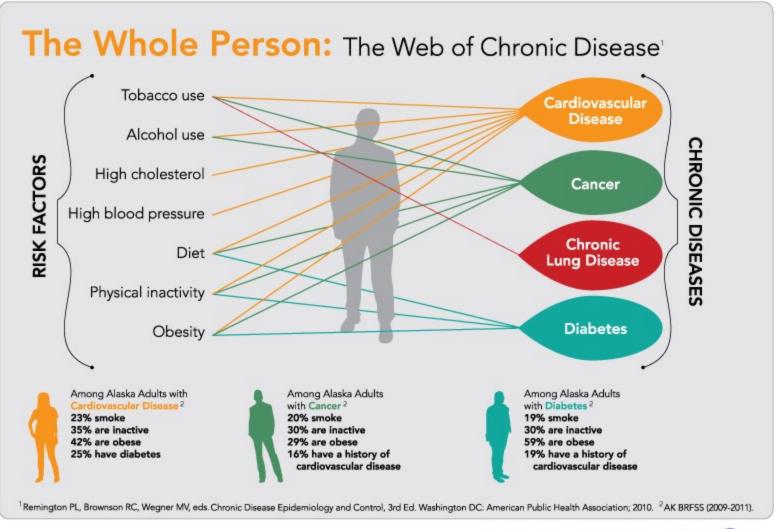
Community Roundtables Goal

Convene key cancer and chronic disease stakeholders and strengthen relationships at the community, state or regional level to promote increased integration efforts









http://dhss.alaska.gov/dph/Chronic/ Chronic Disease Prevention & Health Promotion







Partnership with Area Health Education Centers

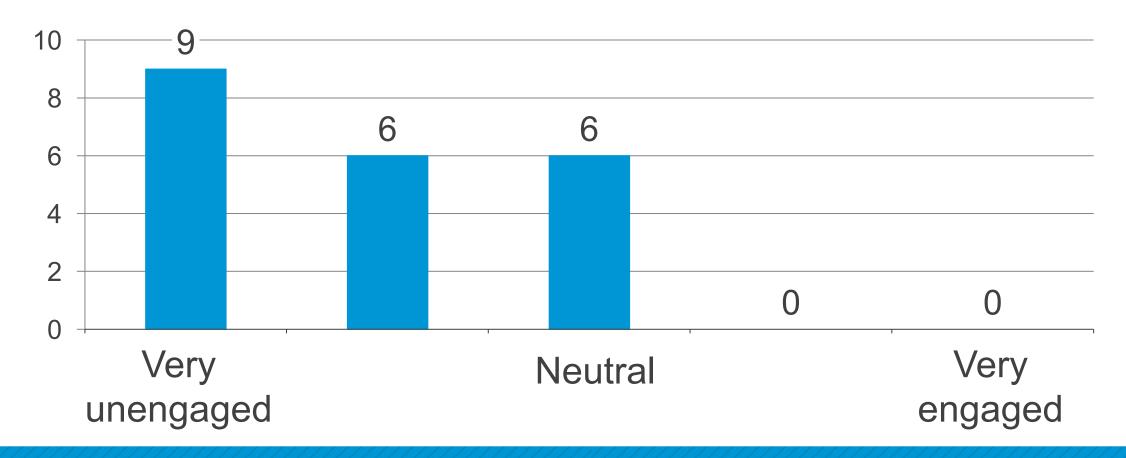


Photo courtesy of National Area Health Education Center Organization





Partnership with Area Health Education Centers







Partnership with Area Health Education Centers







Topics

- Nutrition, physical activity and obesity
- Tobacco and alcohol use and substance abuse
- Access to health services
- Mental and emotional wellbeing

Static across 3 years

Strategies

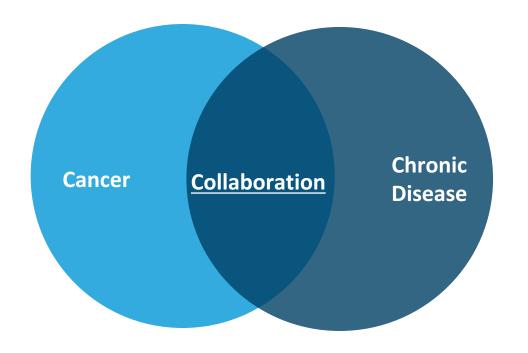
- Epidemiology, surveillance and IT
- Policy, systems and environmental approaches
- Prevention and detection
- Communication, education and training
- Coordination between health professionals
- Community-clinical linkages
- Workforce improvement

Changes every year





How should we measure collaboration?







SNA survey

Questions	If you know this person, how do you know this person?	How often do you contact this person?	How often do you provide information to this person?	How often do you receive from this person?	How much do you trust this person?
Answer options	By name [1], only class mate [2], only lab partners in class [3], personal friends [4]	Never [0], once a year [3], every week [4], eve	low [1], medium [2], high trust [3]		
Harry Potter	0	0	0	0	0
Hermione Granger	4	5	5	5	3
Draco Malfoy	3	4	1	0	1
Neville Longbottom	4	5	4	3	2
And so on					





SNA survey completed by Harry Potter

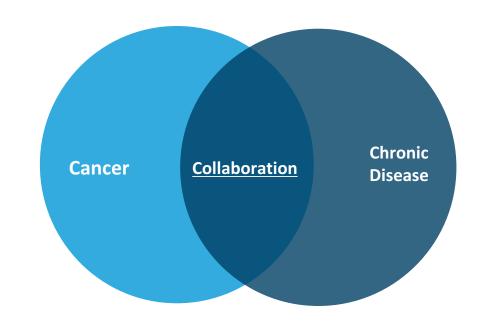
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Community Roundtables SNA methods

- SNA surveys administered before each roundtable meeting
- 2015 Roundtables (all four locations): N=91
- 2016 Roundtables (all four locations): N=80
- UCINET SNA software
- Assess changes in network and working relationships





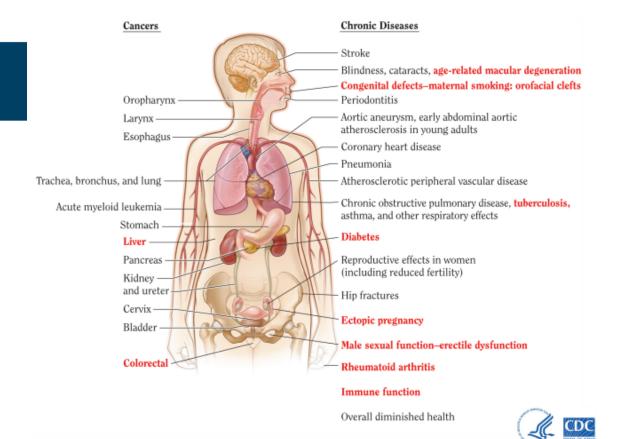


Activities: Northeast Kentucky Area Health Education Center



Topic: Tobacco











Activities: Northeast Kentucky Area Health Education Center



Topic: Tobacco

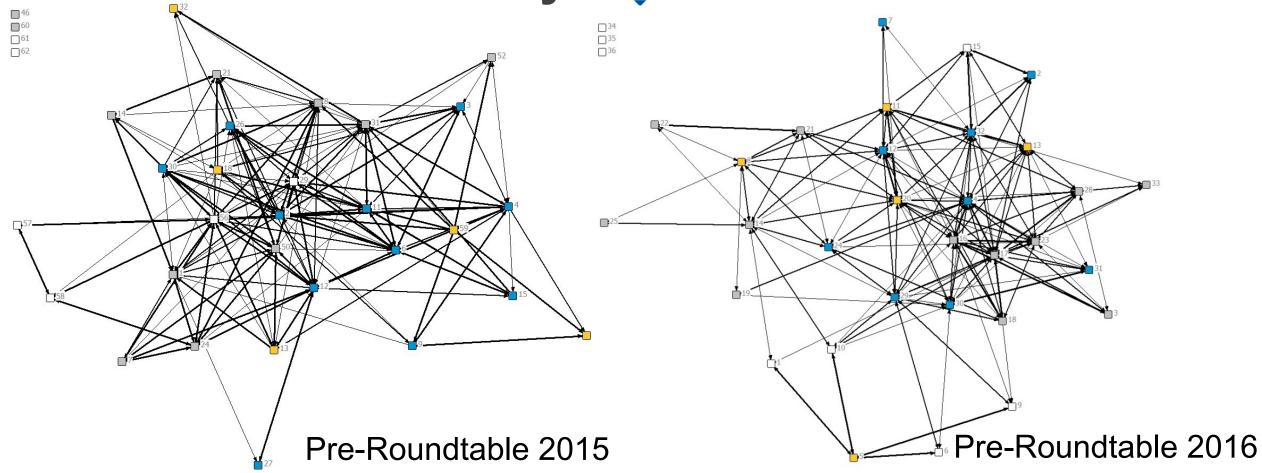
- Identified local and national smoking cessation resources and incorporated into St. Claire Regional Medical Center's EMR for easy referrals
- Developed and pilot tested the BREATHE Tobacco **Treatment Specialist Training**





Northeast Kentucky Area Health Education Center





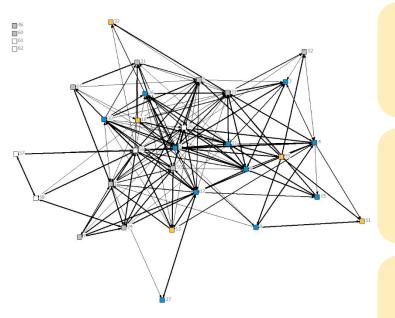




Northeast Kentucky Area Health Education Center



Pre-Roundtable 2015



Average Degree

6.61



5.44

Average Distance

1.89



2.03

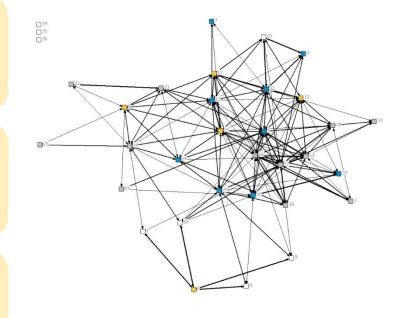
Dyad Reciprocity

0.12



0.40

Pre-Roundtable 2016







Activities: Champlain Valley

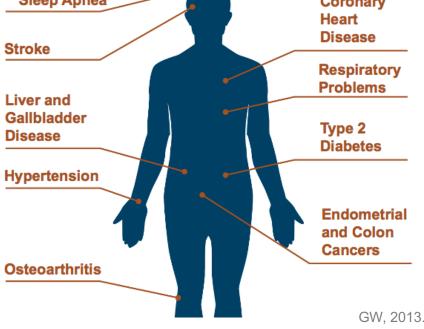


Topic: Nutrition and Physical Activity



Map courtesy of Champlain Valley AHEC

OBESITY INCREASES THE RISK OF OVER 20 CONDITIONS, INCLUDING: Sleep Apnea Coronary Heart







Activities: Champlain Valley

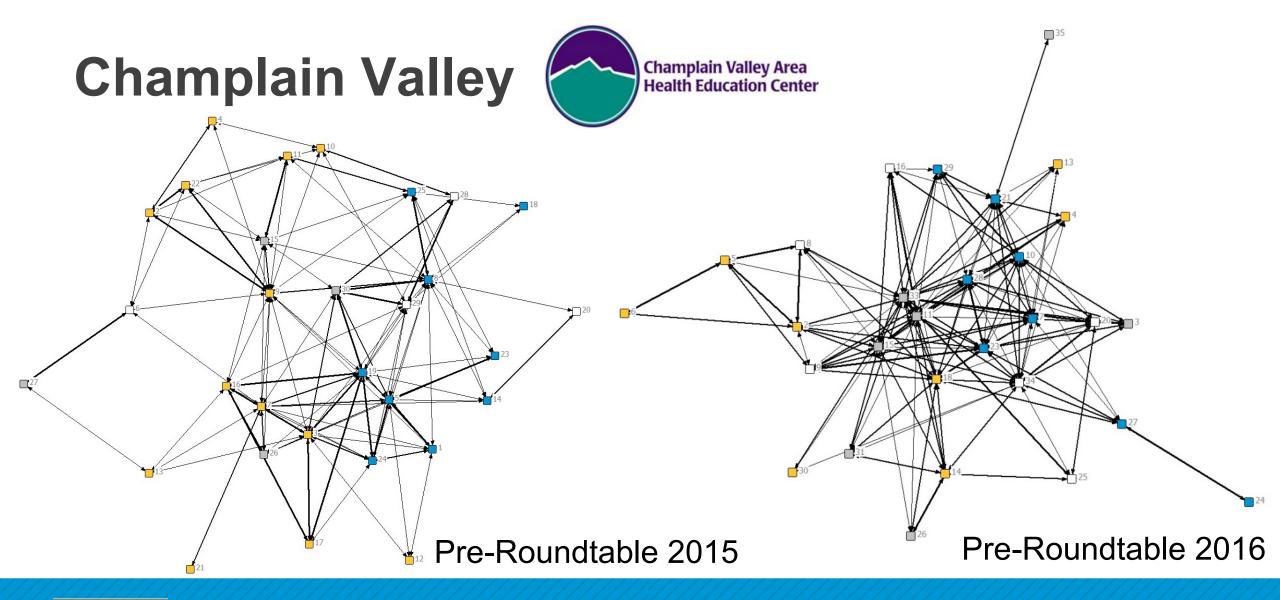


Topic: Nutrition and Physical Activity

- Partnered with Vermont Department of Health to amplify communication campaign
- Identified and obtained commitment from an employer to incorporate 3-4-50







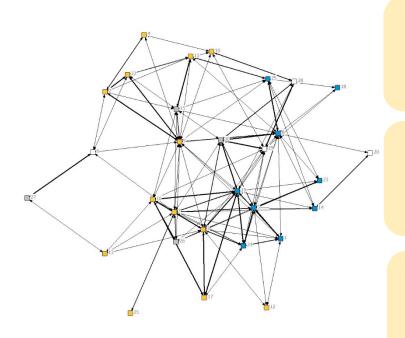




Champlain Valley



Pre-Roundtable 2015



Average Degree

4.97

9.31

Average Distance

2.17



2.06

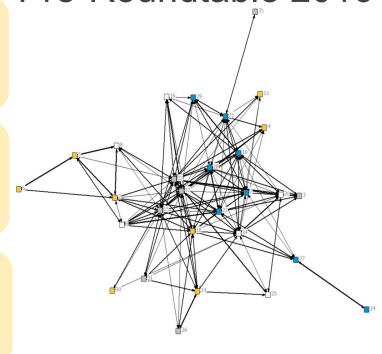
Dyad Reciprocity

0.38



0.21









Activities: Florida

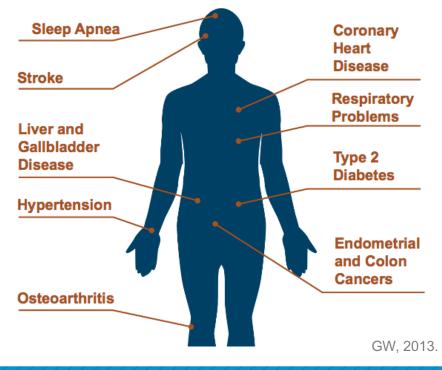


Topic: Nutrition and Physical Activity



Map courtesy of Gulfcoast South AHEC

OBESITY INCREASES THE RISK OF OVER 20 CONDITIONS, INCLUDING:







Activities: Florida



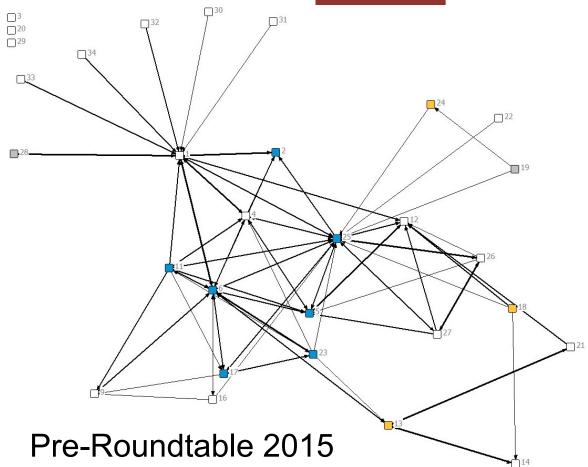
Topic: Nutrition and Physical Activity

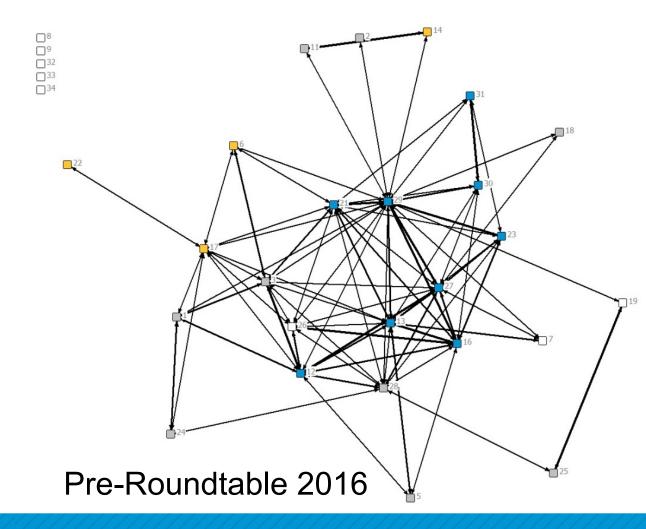
- Mapped local resources
- Incorporated chronic disease slant to the South West Cancer Control Collaborative's two-year strategic plan





Florida The Area Health Education Center





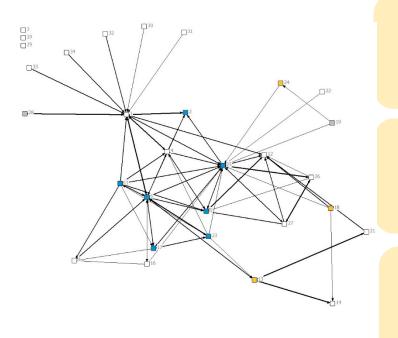




Florida



Pre-Roundtable 2015



Average Degree

2.83

4.43

Average Distance

2.12



1.99

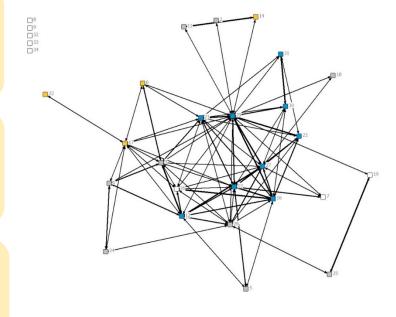
Dyad Reciprocity

0.42



0.62

Pre-Roundtable 2016

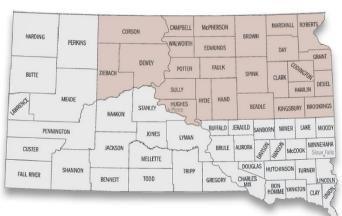




Activities: South Dakota

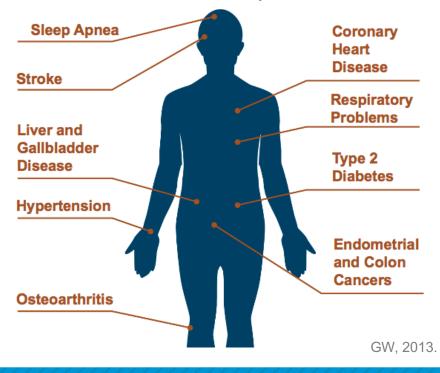


Topic: Nutrition and Physical Activity



Map courtesy of Northeast South Dakota AHEC

OBESITY INCREASES THE RISK OF OVER 20 CONDITIONS, INCLUDING:







Activities: South Dakota

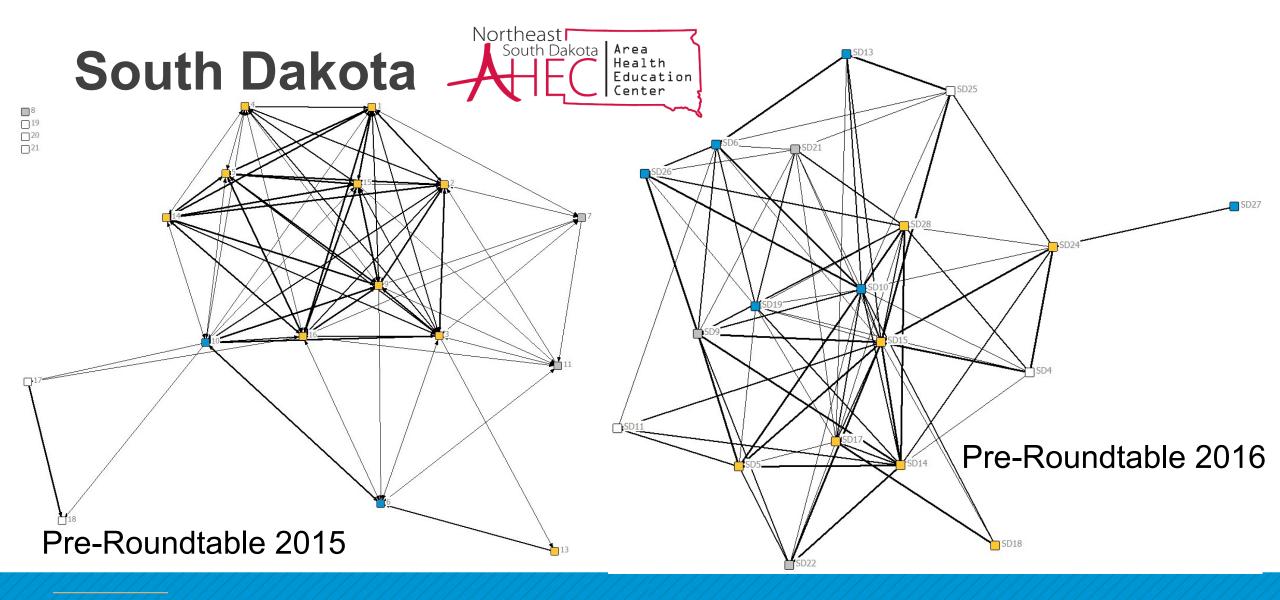


Topic: Nutrition and Physical Activity

- Mapped resources
- Collaborated with cancer clinics for referrals to Diabetes Prevention Program
- Produced electronic referrals policy







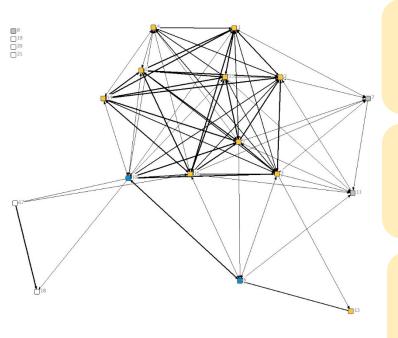




South Dakota



Pre-Roundtable 2015

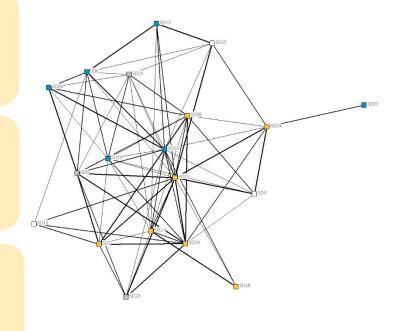


Average Degree 6.50 6.15

Average Distance 1.52 1.66

Dyad Reciprocity
0.86 0.64

Pre-Roundtable 2016







Use SNA to...

Triangulate qualitative feedback

Monitor project progress

Identify areas for improvement

Make project improvements

Identify missing stakeholders

Identify key stakeholders





Additional SNA resources



- Professional development workshops at <u>American Evaluation Association</u> <u>Conference</u> on Monday, November 6 to Tuesday, November 7, 2017 in Washington, DC
 - Social Network Analysis: Theories, Methods, and Applications
 - Evaluating Organizational Collaboration and Networks
 - Introduction to Social Network Analysis for Program Evaluation
 - Using Social Network Methods in Program Monitoring and Evaluation





Additional SNA resources

- <u>Using Social Network Analysis to Assess Mentorship in a Public Health Network</u> by Petrescu-Prahova, et al. in Preventing Chronic Disease
- Interorganizational Relationships Within State Tobacco Control Networks: A Social Network Analysis by Krauss, et al in Preventing Chronic Disease
- <u>"Making Connections: Using Social Network Analysis for Program Evaluation"</u> by Mathematica Policy Research
- <u>"Evaluating Form and Function of Regional Partnerships: Applying a Social Network Analysis to the Network for a Healthy California, 2001-2007"</u> by Gregson, et al. in Journal of Nutrition Education and Behavior
- "Social Network Diagnostics: A Tool for Monitoring Group Interventions" by Gesell, at al. in Implementation Science





Thank You!





- Free online learning modules on:
 - Patient navigation
 - Cancer survivorship
 - Communication and Media
- Comprehensive Cancer Control toolkits and guides
- Webinars and Ask-the-Expert sessions
- ...and more!





References

Borgatti, S. (2002). Basic Social Network Concepts. PowerPoint presented at Analytic Technologies meeting.

Centers for Disease Control and Prevention. (2017). Risks from smoking: Smoking can damage every part of your body. Retrieved from https://www.cdc.gov/tobacco/infographics/health-effects/index.htm#smoking-risks

De Jordy, R. (2015). Analyzing Social Networks. PowerPoint presented at the 2015 LINKS Center Summer Workshop.

The George Washington University. (2013). Cost of obesity: NPHW infographic winner. Retrieved from https://publichealthonline.gwu.edu/cost-obesity-infographic-nphw/





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Sign-up for the GW Cancer Center's Cancer Control Technical Assistance E-Newsletter: bit.ly/TAPenews





Q & A

Please submit questions in the chat box!





Thank You!

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