Positioning P&R Agencies as Preventive Public Health Providers – Research

GP RED
Indiana University
East Carolina University
North Carolina State University
5 Beta Sites for the Healthy
Communities Surveillance and
Management Toolkit™

NCSU Penbrooke PhD Dissertation 2017

Comprehensive Literature Review

NCSU Delphi Panel And Case Studies

Over 500 Community Plans

Repository of Sample Policies and Strategies





Evidence & Guiding Theory

Parks & Recreation (P&R) agencies can help improve Public Health (PH) through various health factors:

- Increasing physical activity and improving nutrition
- Providing psychological and physical benefits from access to nature
- Facilitating social benefits and parental engagement
- Addressing health equity issues, transportation, and safety
- Addressing stress management, smoking, alcohol and drug consumption, etc.

Burns, 2016; Godbey & Mowen, 2010; Kuo, 2013; Sallis, Floyd, Rodriquez, & Saelens, 2012; Slater, Ewing, Powell, Chaloupka, Johnston, & O'Malley, 2010; Wells, 2013; Young, Ross, Kim, & Sturts, 2013

Systems Approach to relationships between access to public P&R spaces and wellness

Flora / Fauna

Attention restoration and ADD

P&R Public Spaces

Open Spaces

Physical activity and social support

Wellbeing & Reduced Stress

Community Spaces

Adapted from EPA, 2014; Kuo, 2015; Saw, Lim, & Carrasco, 2015; Sturm & Cohen, 2014

Big Finding NOW

Research is shifting from one of asking IF P&R agencies can positively affect Public Health factors, to HOW they can best do so with limited resources and prioritization needs.

Our Fit in Overall Community Public Health Systems

Overall Public
Health and
Wellness

Individual
Constitution,
Basic
Preferences,
Security, and
Living
Environment

Medical Care

Nutrition

Recreation

Cognitive, Social,
Physical, and
Spiritual Activities,
along with facilities

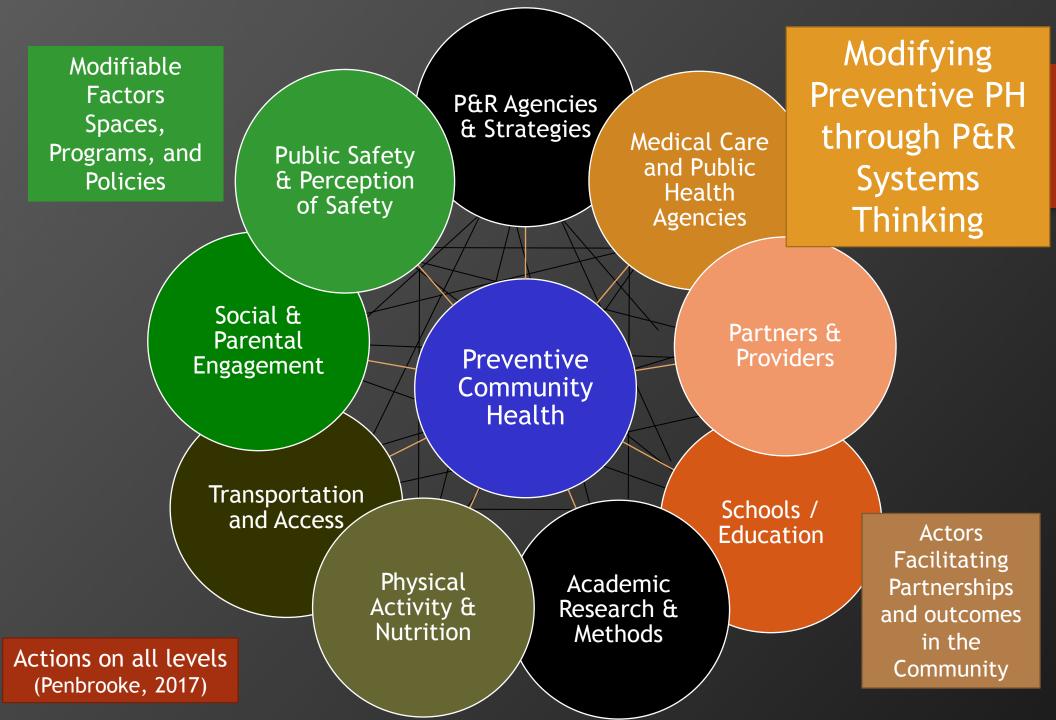


Parks and Recreation play a strong community role and can work with others

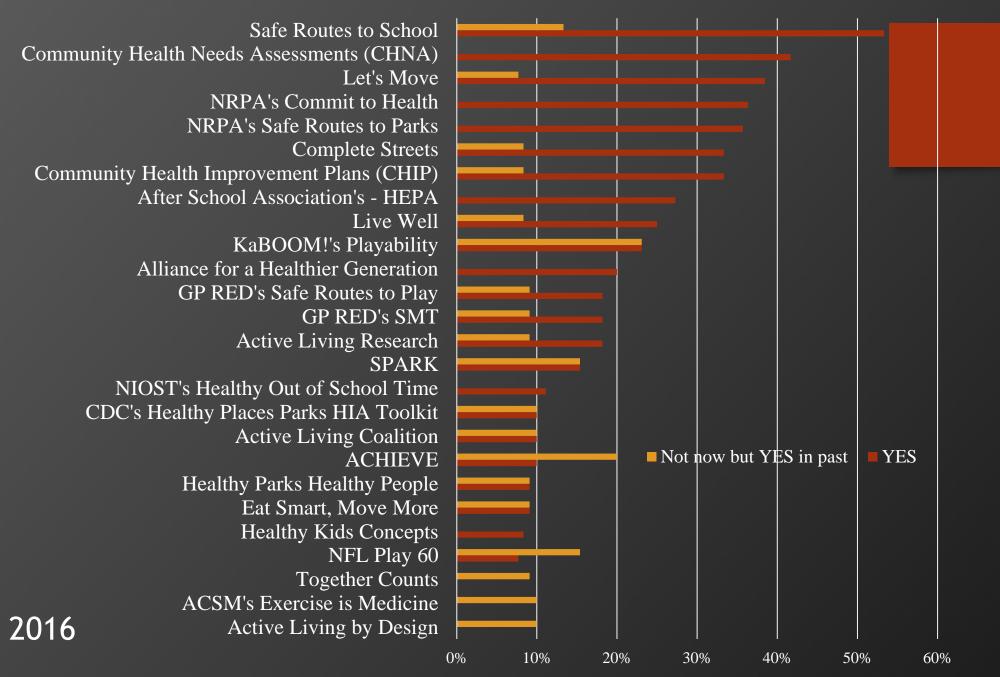
Learning from HIAs and other Available Assessment Tools

- Geographic Site or Topic Specific Assessments
- Food Availability Deserts / Swamps / Local
- Physical Activity Indicators design, activity, or emotional components
- Safe Routes to School
- Walk and Site Audits
- Prescriptions for Play / Park Rx
- Let's Move, Achieve, It Starts in Parks, and other programs designed to evoke change

How does an agency know what to do?

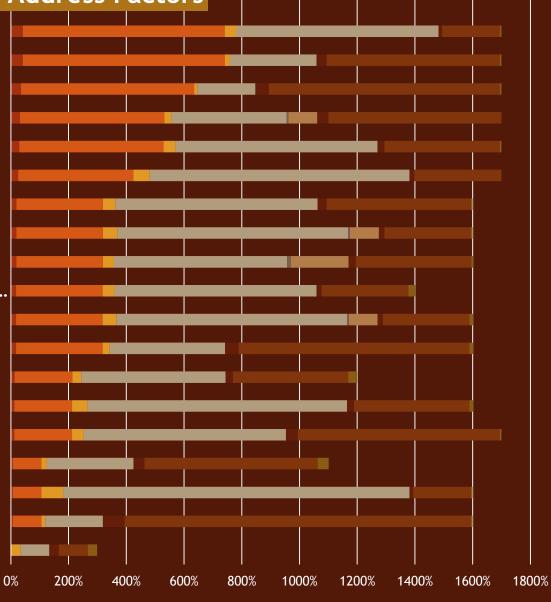


National Initiatives - Are you active with them?





Creating specific program to address factors Creation of a community coalition Hiring specific staff to address factors Pursuing grant funding for factors Analyzing partners and alternative providers Youth Programs around factors Creating Postiive Policy focus on factors Systematic Program Analysis System Inventory of Assets Available Other special assessments on factors (walkability,... General community surveying on factors Centralized web/social media on the factors Evaluation of crime rates / safety Parental education around factors Creation of Youth Group to address factors Correlation of health metrics to site planning Surveying of youth in community Financial analysis of health factors impact Other



Other (1) = MVPA - SO PLAY study

Most effective to least effective, then Never Used or DK

HOW CAN P&R AGENCIES ADDRESS MODIFIABLE FACTORS?

- Step by Step "Toolkit" Approach

CONCLUSIONS

- 1. Convene staff, key stakeholders, and the public FRAME & PARTNER
- 2. Collect community-specific information using valid methods
 - Inventory and analysis of assets and programs available / participation / awareness
 - Analysis of current policies, practices, financial, and allocation of resources
 - Demographics, regional trends, alignment with national initiatives
 - Document partnerships, current providers, and social networks
- 3. Determine Gaps Culture? Programs? Assets? Social? Policies? Staff? \$\\$?
- 4. Create an Action Plan / Logic Model for priorities MESSAGING & ACTION
- 5. Report, communicate, and garner resources
- 6. Evaluate and repeat

Healthy Communities Research Group Five Elements for Systems Analysis

Warrant for Action

- Start inquiry
- Input information
- Create documents
- Start database
- Data transmission
- Warrant for intervention
- Proposal for action

Community Systems

- Convene
 Stakeholders
- Intersections
 - Collaborations
 - Partnerships
 - Agreements
 - Shared assets
- Negative Markers

Policies, Laws & Procedures

- Laws (Fed, State, County, City)
- Ordinances
- Agency regulations
- Agency policies& practices

Fiscal Resources & Distribution

- Identify funding paths
- Determine allocation patterns/%
- Identify sources of \$\$
- Document use of \$\$\$
- Identify ROI

Inventory of Assets & Affordances

- Assets
 - Built
 - Natural
- Affordances
 - Formal programs
 - Services

Why? Who? Impact?

Is our community working?

i What influence on AL?

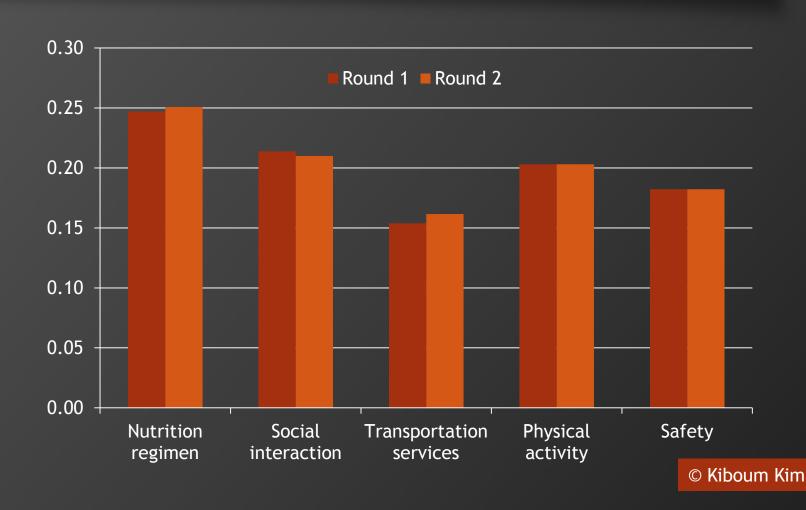


What do we have?

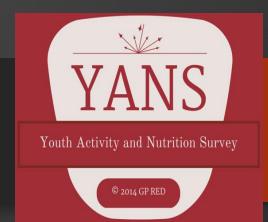
Priority of Health Factors for P&R in Hutchinson

MAUT Analysis

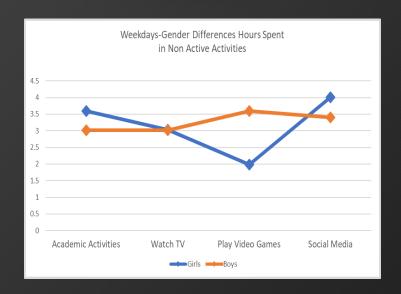
Multi-Attribute Utilities Technique (MAUT)



Hutchinson Youth Activity and Nutrition Survey



- 804 Middle School Students
- Significant findings
 - Nutrition SSB & Breakfast frequencies
 - Screen Time & Activities
 - High Perception of Safety
 - Low Active Transportation for Youth
 - Strong Parental Support, but lower Personal Modeling



OST	Walk	Bike	Bus	Adult drives	Other
Total	12.3%	0.4%	1.3%	70.5%	11.8%
Girls	9.3%	2.1%	0.03%	79.0%	9.3%
Boys	15.0%	5.8%	2.2%	62.5%	14.2%

Component-Based Methodology (CBM) GIS Inventory and LOS Analysis (including walkability)

- Components
- Access
- Functionality
- Quality
- AEE
- Programs



Active Energy Expenditure or "AEE Value"



(Floyd et al., 2015; Layton, 2016)



Bloomington, IN Outcomes

- Toolkit Template creation and utilization for tracking capabilities and awareness
- Partnership with IUB for Get Onboard Active Living (GOAL) - focus on family relationships, food, activity, behavioral, nutrition, mentoring -12 week program. Kinesiology Graduates working with youth for personal training - more than 60 so far
- Funded FT Health and Wellness Coordinator
- Multiple grants, tracking outcomes

South Bend, IN - Active Youth Initiative AYI Accomplishments & Outcomes

- Passport to Play
- AYI Facebook Page
- Prescription to Play
- Alternative Providers Documented
- Participation Increases

Mayor
Pete Buttigieg
Adopted!





Liberty, MO L-CHAT (Community Health Action Team) Outcomes

- Increased partnerships with County Health, Schools, and Hospitals
- Stakeholder identification and new programs
- Full inventory and focus on connectivity
- Helped create new HCRG Youth and Nutrition Survey (YANS) (created with East Carolina University)
- Hired FT Fitness and Wellness Coordinator

AHPD, IL Key Outcomes

- 1. Strong **increased partnerships** for the newly formed *Arlington Heights Health Action Alliance (AHHAA)* created a buzz!
- 2. A complete **inventory and level of service analysis** for all facilities, parks, trails, and programs.
- 3. The Youth Focus Group & YANS gave youth a voice.
- 4. Relevant trends, demographics, financial, and key management aspects were compiled.
- 5. Program & participation enhancements achieved!

Applying Systems Thinking Adapted Knowledge to Action (K2A) Framework for P&R

(CDC, 2017; Penbrooke 2017)



Translation Phase

P&R Agencies

Evidence on
Factors
Theory
Effectiveness and
Implementation
Studies

Decision to Translate Knowledge and Dissemination

Practice based Evidence

Practice
Strategies
Methods
ROI

Decision

to

Adopt

Research Supporting Studies

Translation Supporting Phase

Strategies Phase

Evaluation

Key Conclusions for P&R and Health CONCLUSIONS

- Organizational culture is key to effectiveness must have leadership and incorporation of health into all messaging
- Assignment of resources matters staffing gets it done
- Creation of community collaboration is crucial
- Good sample policies, methods, and guidelines are available and are working
- Measurement, toolkit and evaluation built in (ROI)
- P&R agencies do not need to "make up" their own methods, but application to practice may be different

Thank you for attending!

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