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Physical Activity and Health Partnerships among Park and Recreation Departments in North Carolina

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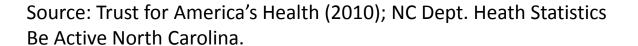
Overcoming Inactivity and Obesity: A State and National Challenge

 NC ranks 10th and 11th in adult and childhood obesity 2010, respectively.

• 32% of NC children (10-17) are overweight.

 56% of NC adults do not meet physical activity guidelines (30/min daily).

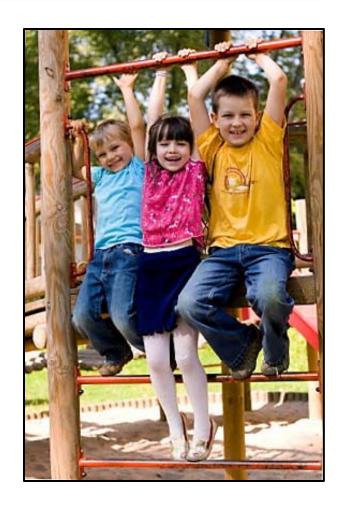






Parks and recreation agencies are valuable community assets.

- 9,000+ park and recreation departments nationwide.
- 108,000 public parks and 65,000 indoor facilities managed.
- 10,000 playgrounds.
- Access to communities most at risk for physical inactivity.



Source: Godbey, G. & Mowen, A. (2010). The benefits of physical activity: The scientific evidence. Ashburn, VA: National Recreation and Park Association.

Partnerships are essential.

 A key strategy in promoting physical activity

(Active Living by Design, 2010).

- One of the most important challenges in health promotion (Kumanyika & Brownson, 2007).
- Contribute to immediate and sustainable interventions

(Simon, Gonzalez, Ginsburg, Abrams & Fielding (2009).



Recent data on partnerships involving Parks & Recreation Departments:

- 88% participated in a health partnership.
- 78% focused on physical activity promotion.
- 61% involved schools; 59% involved public health departments; 52% with health non-profits.

Mowen, A.J., Payne, L.L., Orsega-Smith, E., & Godbey, G.C. (2009). Assessing the health partnership practices of park and recreation agencies: Findings and implications from a National survey. *Journal of Park and Recreation Administration*, *27*(3), 116-131.



Study Objectives

- 1. Describe the extent of physical activity partnership participation among North Carolina public parks and recreation departments.
- 2. Explore potential factors associated with physical activity partnership participation.

Methods

• Data:

- Online survey NC PARDs (N=216).
- 64% response rate.
- Collected in 2007.

• Dependent Variable:

- Formal partnership participation (yes or no):
- County health departments
- Schools
- Faith organizations
- YMCAs
- Partnership Definition: a group that shares resources and that can act as a formal agent.



Agency Characteristics

| Factors | Mean | Minimum | Maximum | SD |
|------------------------------|-------------|----------|--------------|-------------|
| Operating Budget | \$785,020 | \$23,894 | \$12,342,165 | \$1,640,240 |
| Capital Budget | \$1,028,427 | \$600 | \$10,320,253 | \$2,074,502 |
| # Full Time Employees | 28 | 1 | 429 | 66 |
| Size of Population Served | 48,032 | 941 | 768,574 | 101,214 |

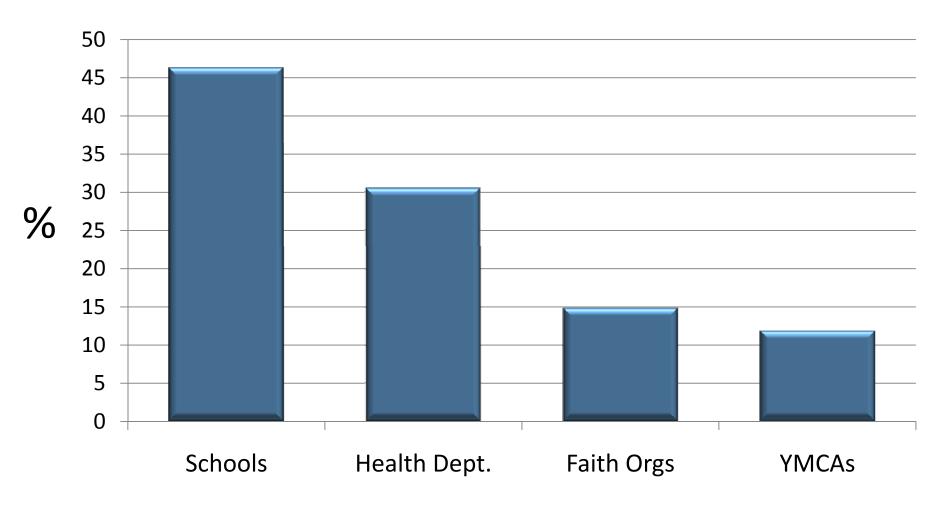
Targeted Populations

| | Level of Effort (%) | | |
|--------------------------|---------------------|------|-------------|
| | Great Deal | Some | Little/None |
| Obesity among boys | 28.6 | 54.5 | 17.0 |
| Obesity among teen boys | 12.7 | 53.9 | 33.3 |
| Obesity among girls | 27.7 | 54.5 | 17.9 |
| Obesity among teen girls | 12.5 | 55.8 | 31.7 |
| Minority Groups | 30.8 | 54.2 | 15.0 |

Profile of Director Characteristics

- 68% were men
- 20.14 average (mean) years of experience
- 8.07 average (mean) in current position
- 27% held professional certification (CPRP)

Participated in Formal Physical Activity Partnership (% yes)



Partners

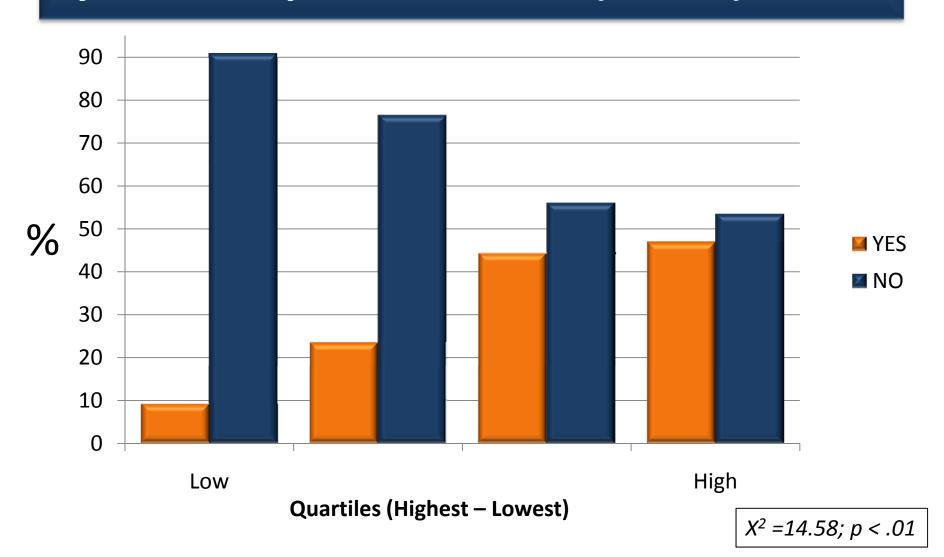
<u>Associations for Physical Activity Partnership Participation</u>

| Organizational Characteristics | | X ² | р | Cramer's V |
|--------------------------------|--------------------|----------------|------|------------|
| Health Depts: | Operating Budget | 12.96 | .005 | .327 |
| | Size of Population | 14.58 | .002 | .334 |
| Faith Orgs: | Operating Budget | 11.86 | .008 | .311 |
| YMCAs: | Operating Budget | 14.71 | .002 | .346 |

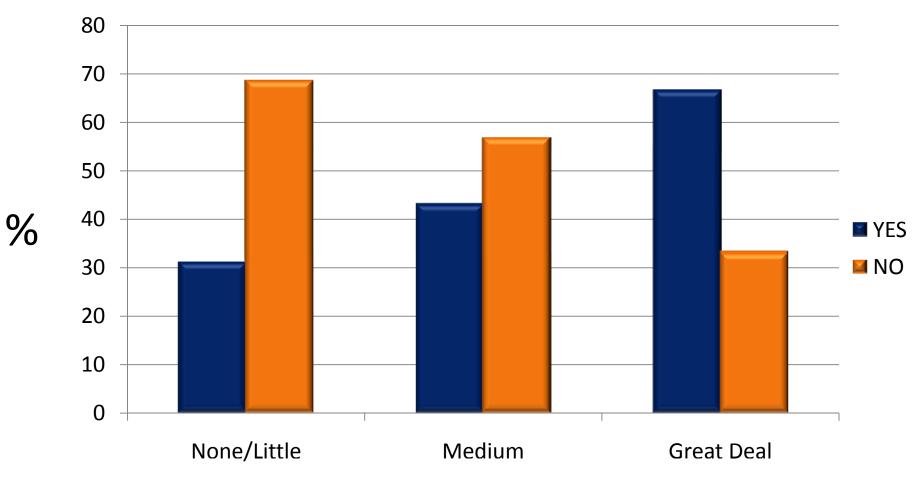
| Director Cha | racteristics | X ² | р | Cramer's V |
|--------------|--------------|----------------|------|------------|
| YMCAs: | CPRP | 4.84 | .028 | .191 |
| | Gender | 5.58 | .018 | .206 |

| Targeted Effort | | X ² | p | Cramer's V |
|-----------------|-----------------------|----------------|------|------------|
| Schools: | Obese Teen Boys | 9.23 | .010 | .301 |
| | Obese Teen Girls | 8.24 | .016 | .282 |
| | Minority Groups | 6.94 | .031 | .255 |
| YMCA: | Adults w/Disabilities | 11.10 | .004 | .338 |
| | Youth w/Disabilities | 8.28 | .016 | .279 |

Partnership with County Health Department by Size of Population Served (n= 131)



Partnership with Schools by Effort Targeting Minority Groups (n= 107)



Level of Effort

 $X^2 = 6.94$; p < .05

Key Findings & Implications

- NC parks and recreation departments are actively engaged in physical activity partnerships.
- Low participation indicates need for understanding facilitators and barriers to participation.
- Greater resources may lead to stronger partnership participation.
- Schools and YMCAs are important but under utilized partners for populations most at risk for physical inactivity.

Study Limitations

- Findings limited to North Carolina.
- Secondary data source.
 - *Informal* partnership participation not measured.
 - Limited measures of characteristics and extent of partnership opportunities available.
 - Lack measures of shared resources
- No data on partnership effectiveness for increasing physical activity.

Conclusions: Physical activity partnerships matter for NC.

- North Carolina is confronted with health and economic burden related to physical inactivity.
- Parks and recreation departments can play key roles in physical activity partnerships.
- As public fiscal resources continue to shrink, partnerships are necessary to solve complex problems.

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