Neighborhood Perceptions and Gambling Behaviors

EVA MONSON
DEPARTMENT OF COMMUNITY HEALTH SCIENCES, UNIVERSITY OF SHERBROOKE, CANADA
CORRESPONDANCE: EVA.MONSON@USHERBROOKE.CA
Introduction

Relationships between environmental factors and health-related behaviors

Neighborhood contextual factors and mental illness

Associations between neighborhood context and gambling participation and problems

✔ Objective measures  ❌ Subjective expressions
Environmental Context

- Compositional factors
  - Characteristics of people who live in specific places

- Contextual factors
  - Characteristics of places themselves

Neighborhoods ➔ Behaviors
Environmental Context

- Compositional factors
  - Characteristics of people who live in specific places

- Contextual factors
  - Characteristics of places themselves
Compositional Factors

- Inequalities based on socioeconomic level of neighborhoods

Lower income individuals and households:

- Gamble more
- Correlated with problem gambling
- Overrepresented in highest spending gamblers
- Spend a higher proportion of their income in gambling

Vulnerable groups experience a disproportionate burden of gambling-related problems.
Contextual Factors

Heavily focused on gambling-specific influences within neighborhoods

- Proximity with gambling opportunities
- Accessibility
- Density of gambling machines
Neighborhood Perceptions

<table>
<thead>
<tr>
<th>Objective Measures</th>
<th>Perception-based Measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insufficient for complex theoretical constructs</td>
<td>Importance of perceptions and experiences</td>
</tr>
<tr>
<td>Concrete account of context but not of constructs requiring persons’ perspectives</td>
<td>In-depth understanding</td>
</tr>
<tr>
<td>Can lead to misinterpretations</td>
<td>Interactions (individual/society)</td>
</tr>
</tbody>
</table>
Perceived neighborhood characteristics and gambling outcomes

- Few studies have examined deprivation-specific contextual factors

- Previous research has focused on gambling specific contextual factors
  - Focused on objective measures of neighborhood composition

- Few have examined subjective measures of neighborhood perceptions
Aim

To expand knowledge from previous studies on the effects of neighborhood characteristics on gambling patterns through cross-sectional investigation in an epidemiological community sample of the associations between perceived neighborhood contextual factors and (a) gambling participation and (b) problems.
Method: Epidemiological catchment area

Design
- Cross-sectional – Wave 4
- In-person interviews
- Random selection of homes in Southwest Montreal
  - January 2014 to June 2015

Sample
- N = 1,871
- 15 to 65 years
Measures

- Sociodemographic and economic information
  - Canadian Community Health Survey Questionnaire 1.2

- Gambling participation and patterns
  - Past 12 months participation
  - Problem Gambling Severity Index (PGSI)\textsuperscript{26}
    - Two groups were formed for analysis:
      - 1) Non-problem gamblers and low-risk gamblers and 2) moderate-risk and problem gamblers
Measures

- Neighborhood Perceptions
  (+) Community Involvement Scale
  (+) Neighboring Behaviour Scale
  (+) Social Cohesion Subscale
  (-) Resident Disempowerment Scale
  (-) Neighborhood Safety Subscale
  (-) Neighborhood Disorder Scale
Analysis

Two-step analysis:
- Bivariate followed by multivariate analyses between neighborhood variables and gambling outcomes

Models developed in relation to:
- Gambling participation
- Gambling categories (i.e. non-problem and low-risk vs. moderate-risk and problem gamblers)

Multivariate analyses include logistic regressions:
- Associations between the neighborhood perception variables and gambling pattern variables
- Adjustment for multiple comparisons
Results

Sample characteristics

<table>
<thead>
<tr>
<th>Personal characteristics</th>
<th>Mean (SD)</th>
<th>% of residents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age</td>
<td>46.86 (13.9)</td>
<td>N.A.</td>
</tr>
<tr>
<td>Sex</td>
<td>-</td>
<td>60.2: 39.8</td>
</tr>
<tr>
<td>Women</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Men</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Marital status</td>
<td>-</td>
<td>32.8: 54.7: 15.7: 2.8</td>
</tr>
<tr>
<td>Single</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Married/in relationship</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Separated/divorced</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Widowed</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Completed high school</td>
<td>-</td>
<td>81.5</td>
</tr>
<tr>
<td>Employed (past 12 months)</td>
<td>-</td>
<td>74.6</td>
</tr>
</tbody>
</table>

Gambling characteristics

<table>
<thead>
<tr>
<th>Gambling participation (12 months)</th>
<th>% of residents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gambling participation</td>
<td>58.8</td>
</tr>
<tr>
<td>Lottery</td>
<td>53.5</td>
</tr>
<tr>
<td>Slot machines</td>
<td>7.9</td>
</tr>
<tr>
<td>Poker</td>
<td>4.7</td>
</tr>
<tr>
<td>Other gambling activities</td>
<td>&lt; 4.0</td>
</tr>
</tbody>
</table>

PGSI categories

| Non-problem                        | 55.7           |
| Low-risk                            | 1.5            |
| Moderate-risk                       | 1.2            |
| Problem                             | 0.4            |
Bivariate results

Community Participation \(\rightarrow\) Gambling Participation
Higher community participation = more likely to have gambled

Resident Disempowerment \(\rightarrow\) Moderate-Risk/Problem Gamblers
Higher resident disempowerment = more likely to be moderate-risk or problem gamblers

Neighborhood Disorder \(\rightarrow\) Moderate-Risk/Problem Gamblers
Higher neighborhood disorder = more likely to be moderate-risk or problem gamblers
Multivariate results

Community Participation ← Gambling Participation

Resident Disempowerment ← Moderate-Risk/Problem Gamblers

Neighborhood Disorder ← Moderate-Risk/Problem Gamblers
Discussion

Associations between perceptions of neighborhood context and gambling outcomes

Relationship between community participation and gambling needs to be further explored

Contrasts previous findings

- Martins et al. (2013) - individuals living in moderate and high disadvantaged neighborhoods were more likely to be past year gamblers as well as to have gambling problems
- Different samples: low-income, urban, young adults compared to general population
Discussion

Associations between perceived neighborhood disorder and problem gambling

Results broaden previous research with youth linking perceived disadvantage and gambling problems

Consistent with existing research using with objective measures of neighborhood disadvantage
Discussion

Strengths

- Large geographically-defined population
- Significant results despite the low prevalence of moderate-risk and problem gamblers

Limitations

- No causality
- Self-report
Conclusions

- Look beyond individual risk factors for gambling problems
- Intervene in communities
  - Improve neighborhood social dimensions
  - Understand the role of neighborhood contexts
- Changing social norms and altering access to gambling opportunities\textsuperscript{15}
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References


