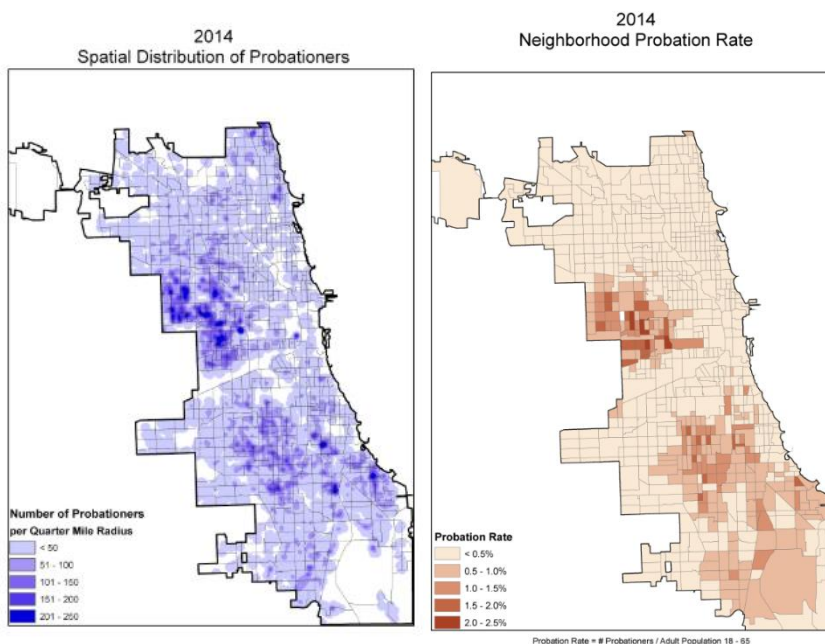


A SPATIAL ANALYSIS OF PROBATION IN CHICAGO, ILLINOIS EXECUTIVE SUMMARY

Kathryn Bocanegra, LCSW, PhD

Law enforcement agencies have been using spatial analyses to inform crime prevention strategies for over a century. In the past 20 years spatial data on incarceration trends (prison admissions) and parole (prison exits) has similarly been analyzed. Notably absent from this trend is a spatial analysis of probation. Probation is the leading form of correctional control, however relatively little is known about the impact of probation on individual behavior, effectiveness in deterring crime, or its impact on communities and public safety. The following overview provides a basic summary on the following; a) where are probationers residing in Chicago? b) what is the relationship between community context and probation outcomes? c) what is the relationship between probation supervision and neighborhood dynamics over time?

Spatial Patterning of Probationers in Chicago, IL



Key Observations

- Probationers are clustered in a discrete set of spatially contiguous neighborhoods. The spatial patterns observed are stable over time, even as the number of closed cases has decreased over time
- The spatial patterns observed are not random
- In Chicago probationers are concentrated in neighborhoods with the highest rates of poverty and violent crime where the majority of residents are African American

The following research was completed with the support of the National Institute of Justice Graduate Research Fellowship

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The author would like to thank the Illinois Sentencing Policy Advisory Council for their support and technical assistance in the completion of this research

Probation Outcomes in Context

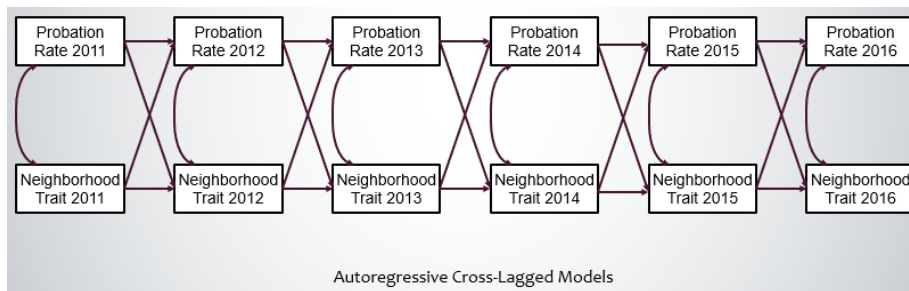
*Summary of Multilevel Modeling Results:
Generalized Linear Mixed Models*

Predictor	B	SE B	T	Odd Ratio
<i>Individual- Level Characteristics</i>				
LSI-R Score	0.02 **	0.002	89.07	1.02
Gender (Male)	-0.40 **	0.04	122.41	0.67
<i>Race/ Ethnicity (White)</i>				
Other	-0.05	0.17	-0.30	0.68
African American	0.37 **	0.06	6.31	1.44
Hispanic	-0.19 **	0.06	-3.23	0.83
Age	-0.03 **	0.001	450.27	0.98
<i>Neighborhood-Level Characteristics</i>				
Violent Crime Rate	-0.002	0.003	0.39	0.99
Residential Stability	-0.02	0.02	1.21	0.98
Concentrated Disadvantage	0.11	0.03	16.07	1.11
Racial/ Ethnic Diversity	-0.06 *	0.05	1.53	0.95
Probation Rate	0.03**	0.005	33.24	1.03

*p < 0.05, **p < 0.001

Key Observations

- *The models are limited in providing robust predictors of one's probation outcomes*
- *Acknowledging these limitations, there is evidence that neighborhood context is associated with one's probation outcomes*
- *More specifically, a probationer is more likely to have a negative discharge if they reside in a segregated neighborhood with a higher concentration of probationers*



Probation and Neighborhoods

Key Observations

- *Analyses focused on the following neighborhood traits: concentrated disadvantage*, residential stability, racial/ ethnic diversity, violent crime**
- *A bidirectional/ cyclical effect was observed with concentrated disadvantage, violent crime, and probation supervision; e.g. violent crime rates predict probation supervision rates, and probation supervision rates predict violent crime rates over time*
- *This study is a critical first step in examining how the community corrections system is a key institution in the social and economic life of poor urban neighborhoods*

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