Mapping a Prevalence of Supplemental Security Income Recipients across the Counties in Oklahoma from 2011-2013

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BACKGROUND

- The Supplemental Security Income (SSI) is a federal income supplement program funded by general tax revenues.
- It is designed to assist blind, aged, and disabled people meet basic needs for food, clothing, and shelter on a daily basis.

RESEARCH AIMS

- To explore a distribution of SSI recipients across the counties in the state of Oklahoma.
- To investigate if there is a significant difference in prevalence of SSI recipients among counties in Oklahoma.

METHODS

- Data for SSI recipients of all ages and an estimate of the total population by county in Oklahoma from 2011-2013 were collected from the Social Security Administration and the U.S. Census website.
- Chi-square statistics was used to appraise significant different counties for prevalence of SSI recipients in Oklahoma.
- Type I error 0.05 was used.
- ArcGIS 10.2 and SAS 9.3 were used for data analysis.

RESULTS

Table 1: Descriptive summary of the total population and the distribution of SSI recipients in Oklahoma from 2011-2013

<table>
<thead>
<tr>
<th></th>
<th>Minimum</th>
<th>Maximum</th>
<th>Mean</th>
<th>Std Dev</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Population</td>
<td>7,191</td>
<td>2,226,577</td>
<td>148,695</td>
<td>331,146</td>
</tr>
<tr>
<td>SSI Recipients</td>
<td>108</td>
<td>58,080</td>
<td>3,772</td>
<td>8,023</td>
</tr>
</tbody>
</table>

Figure 1: Total Population and SSI Recipients by County in Oklahoma from 2011 to 2013

Figure 2: Counties with Significantly Higher SSI Recipients Prevalence in Oklahoma from 2011 to 2013

DISCUSSION / CONCLUSION

- There is a significantly different prevalence of SSI recipients in different counties in Oklahoma (Figure 2).
- Canadian, Cleveland, Marshall, and Sequoyah are counties that have a significant higher rate of SSI recipients as compared to other counties in Oklahoma (Figure 2).
- This result might suggest further exploratory investigation of the possible associated demographic and economic factors such as poverty and unemployment in these counties to better understand the relationship between these factors and the prevalence of SSI recipients.

FUTURE DIRECTIONS

- Assess the impacts of other factors that could describe the difference in prevalence of SSI recipients in these counties including poverty and unemployment.

REFERENCES


FOR MORE INFORMATION

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