



Pobal & Health Research Board



Analysis of the relationship between addiction treatment data and geographic deprivation in Ireland, 2019 to 2021

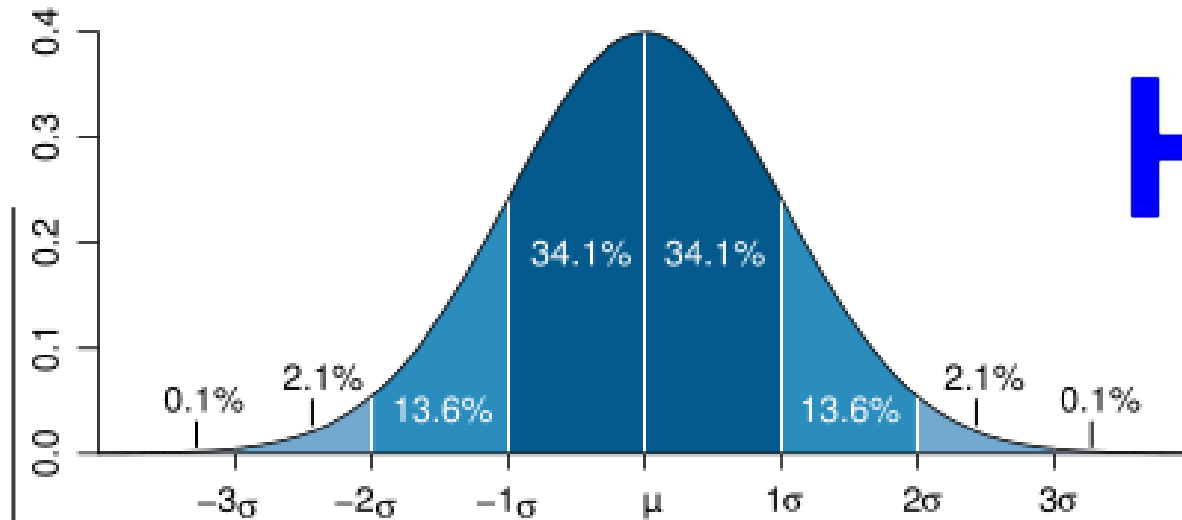
Dr. Suzi Lyons (HRB)

Dr Martin Quigley (Pobal), Dr Patrick Collins (Pobal), Mr Brian Galvin (HRB), Dr Anne Marie Carew (HRB) and Dr Sarah Craig (HRB)

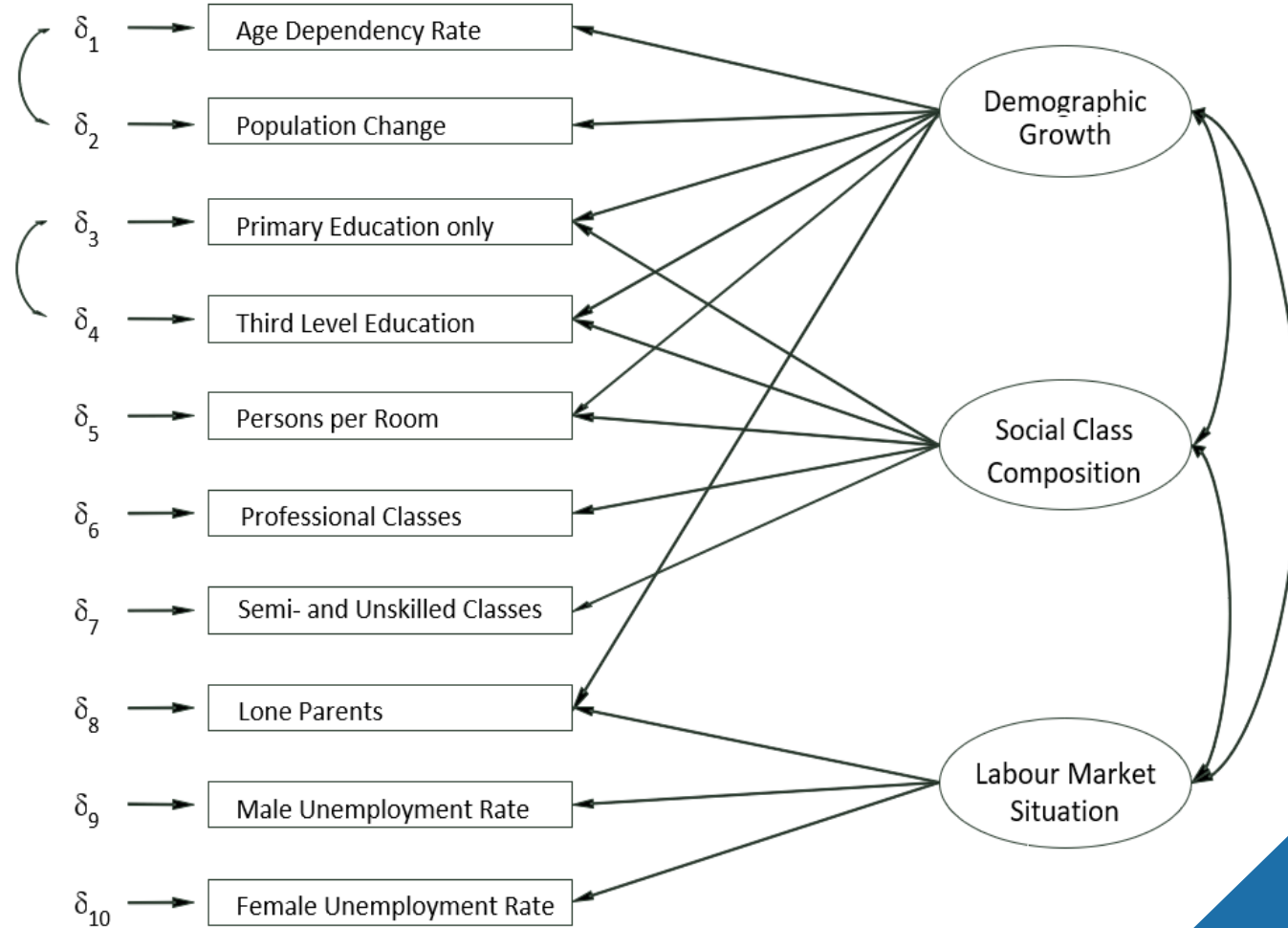
Aims

- Demonstrate potential for geographic analysis of addiction treatment data when mapped onto area-based disadvantage using the Pobal HP Deprivation Index
- Compliment work of Trutz Haase & Jonathan Pratchke (2017)
- Present findings on the relationship between addiction treatment and geographic deprivation

Pobal HP Deprivation Index



- Developed every census since 1991
- Commissioned by Pobal
- Used by Pobal, other Departments, State Agencies and researchers
- Available at Electoral Division level at data.gov.ie, and at Small Area (SA) level on license with authors
- Updated with 2022 census (November 2023)





NDTRS

- National epidemiological database on treated drug (including alcohol) use; maintained by Health Research Board on behalf of the Department of Health.
- Episode-based; Small Area recorded since 2016
- All publicly funded drug and alcohol treatment services required to participate:
 - outpatient, inpatient, low threshold, general practitioners, and prison.

Methodology

- Attributed the Deprivation Index (based on the 2016 census) to each drug treatment episode (2019-2021) at Small Area level
- Geographic mapping of data on ARCGIS
- Compared general population proportion to drug treatment episode proportion
- Calculated drug treatment rate per 100,000 of population



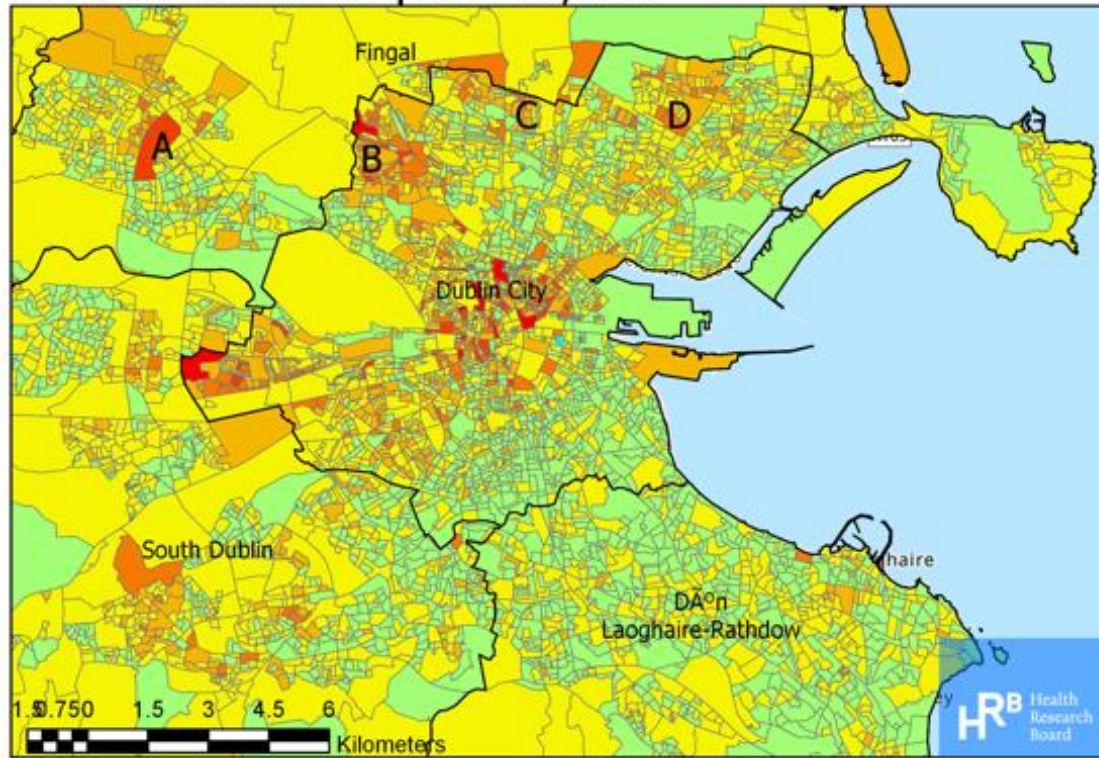
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30 years



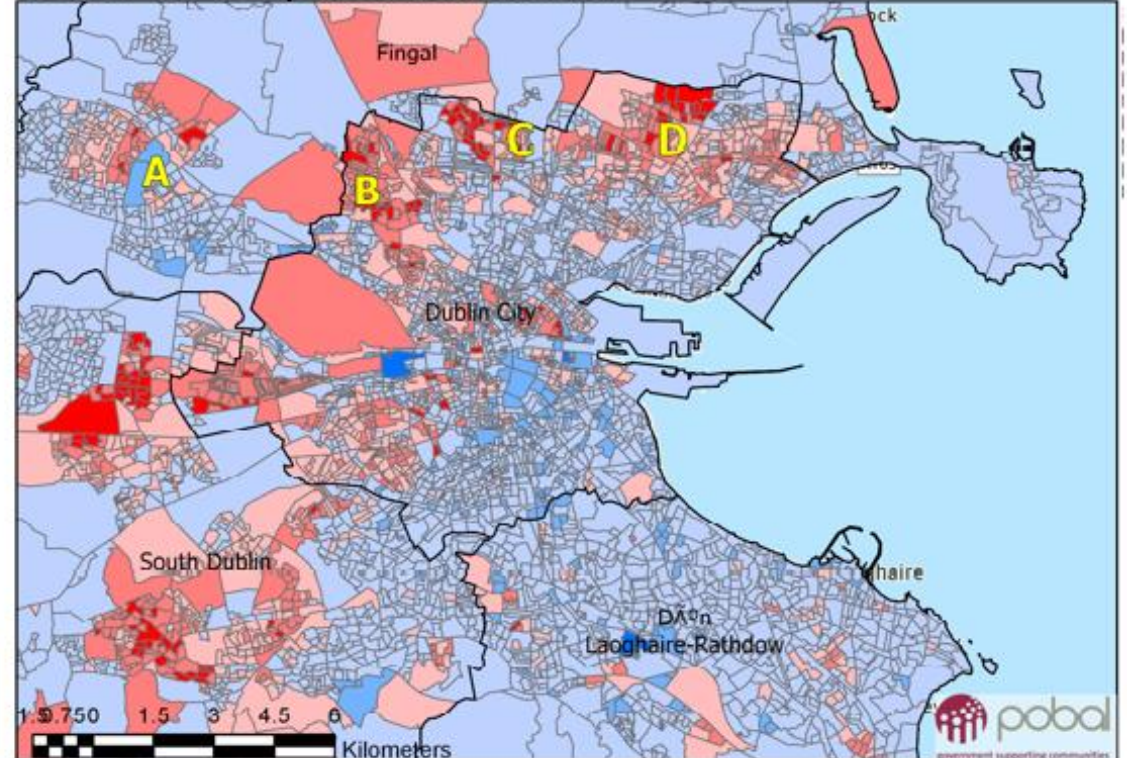
Limitations

- Treatment patterns may not always reflect prevalence
- Only publicly funded treatment centers are required to provide data

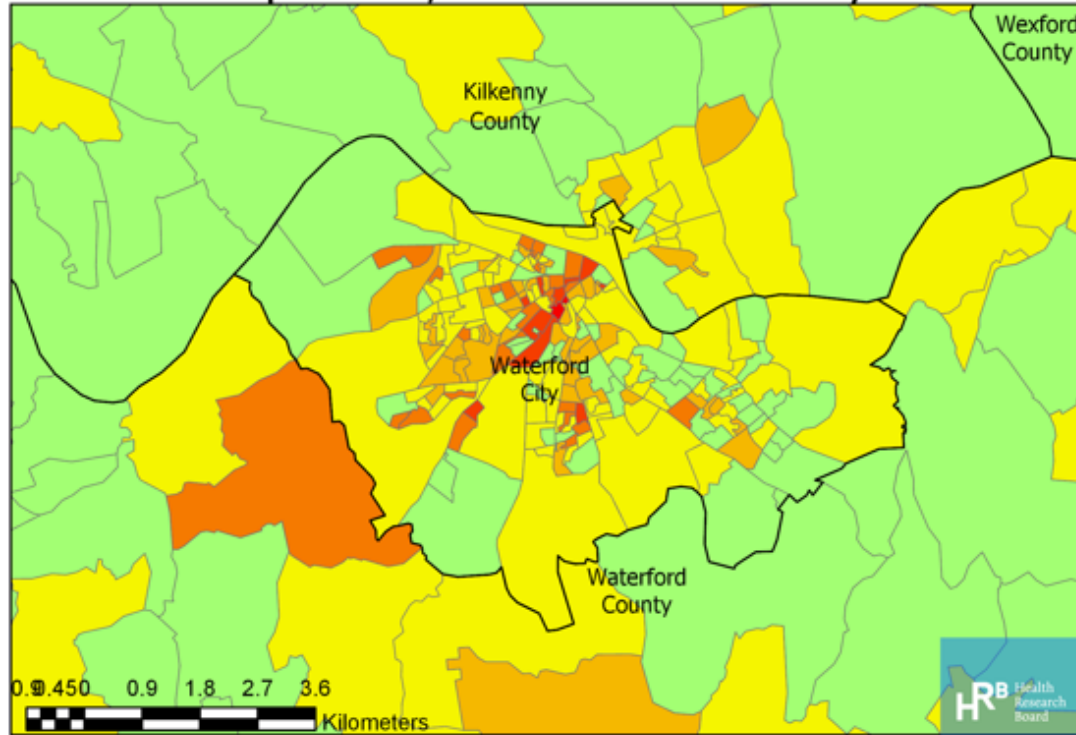
DTRS treatments per 100,000



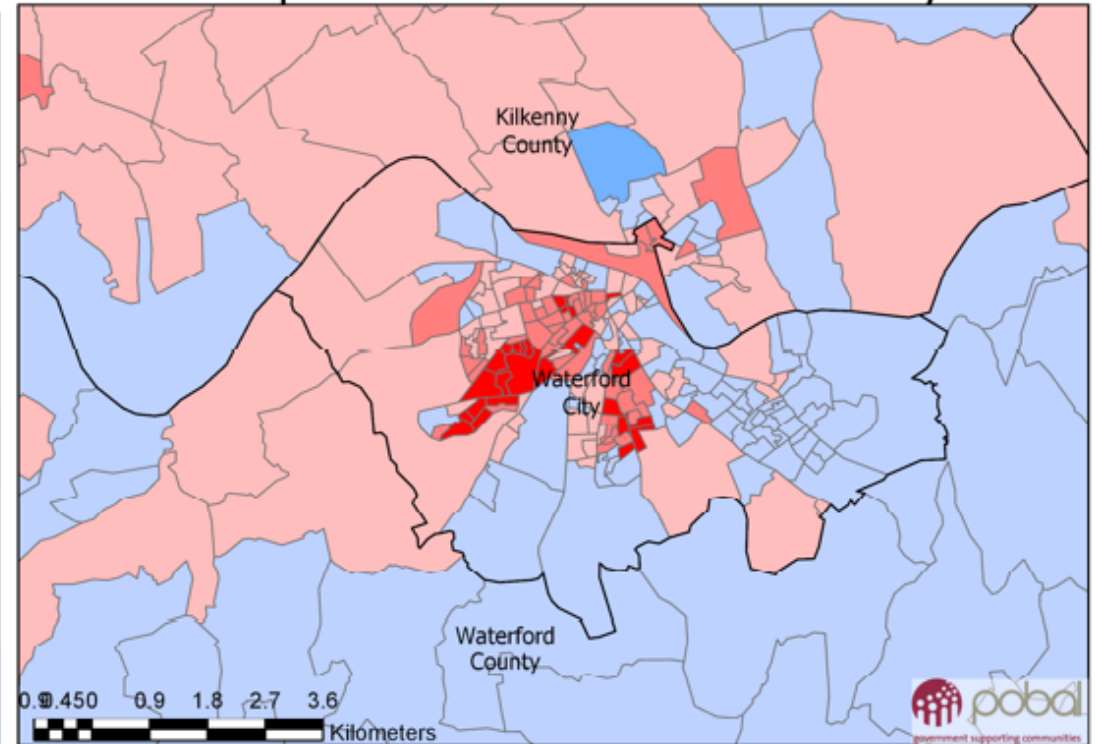
Pobal HP Deprivation Index



Treatments per 100,000 - Waterford City



Pobal HP Deprivation Index - Waterford City



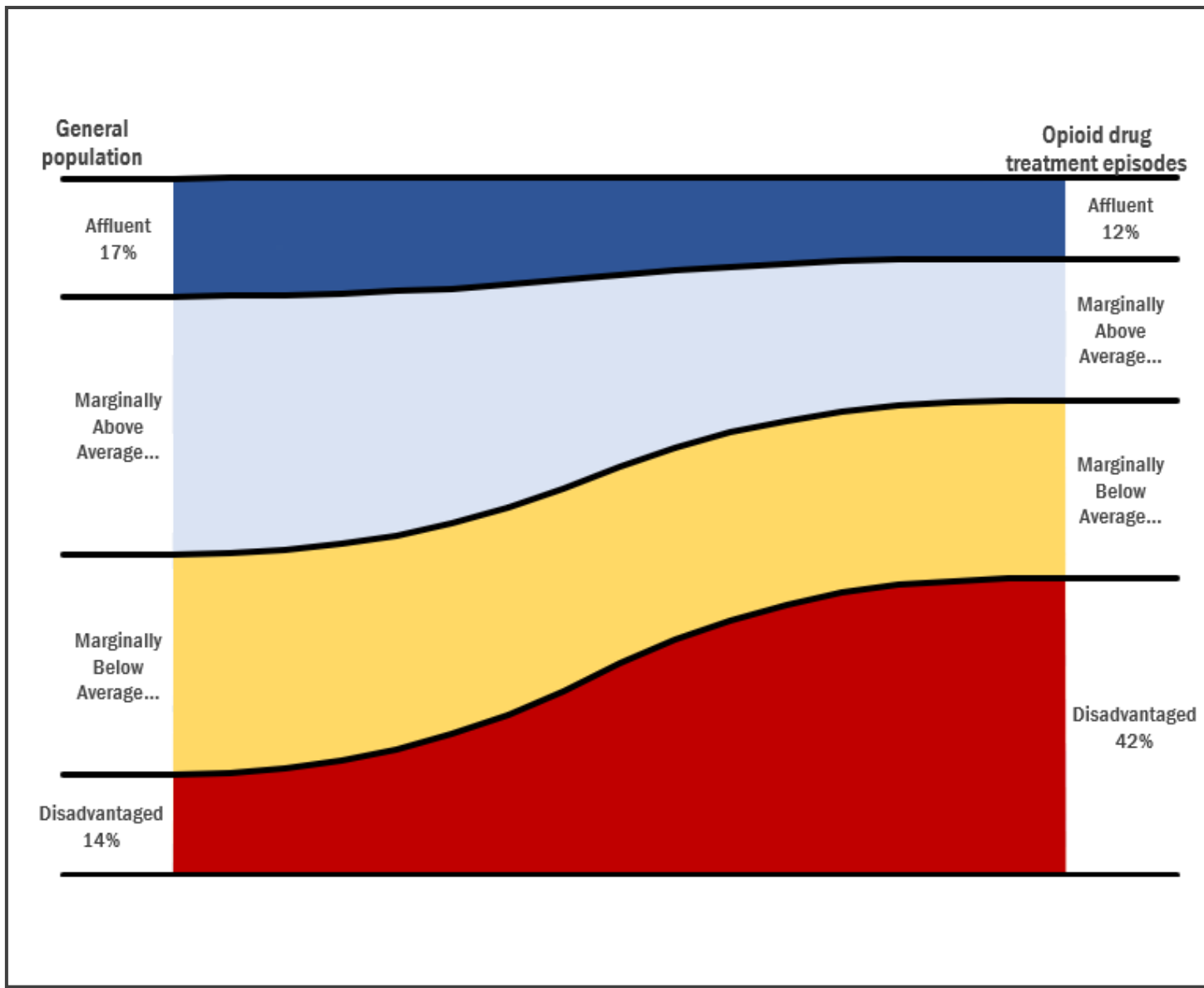
| Deprivation band | Population (%) | All drug types (%) | Alcohol (%) | Cannabis (%) | Cocaine (%) | Opioids (%) | Other drugs (%) |
|--------------------------|----------------|--------------------|-------------|--------------|-------------|-------------|-----------------|
| Extremely disadvantaged | 0.09 | 0.18 | 0.11 | 0.18 | 0.24 | 0.13 | 0.57 |
| Very disadvantaged | 2.81 | 8.57 | 6.53 | 7.77 | 10.17 | 11.03 | 10.66 |
| Disadvantaged | 11.45 | 26.52 | 22.23 | 26.80 | 30.33 | 31.22 | 28.22 |
| Marginally below average | 31.52 | 29.87 | 33.19 | 30.80 | 28.23 | 25.58 | 25.92 |
| Marginally above average | 37.10 | 24.02 | 26.80 | 25.08 | 21.75 | 20.34 | 22.22 |
| Affluent | 15.24 | 9.61 | 10.13 | 8.53 | 7.93 | 9.91 | 11.24 |
| Very affluent | 1.75 | 1.21 | 0.99 | 0.84 | 1.35 | 1.79 | 1.17 |
| Extremely affluent | 0.05 | 0.01 | 0.03 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

Type of drug by
Deprivation
band

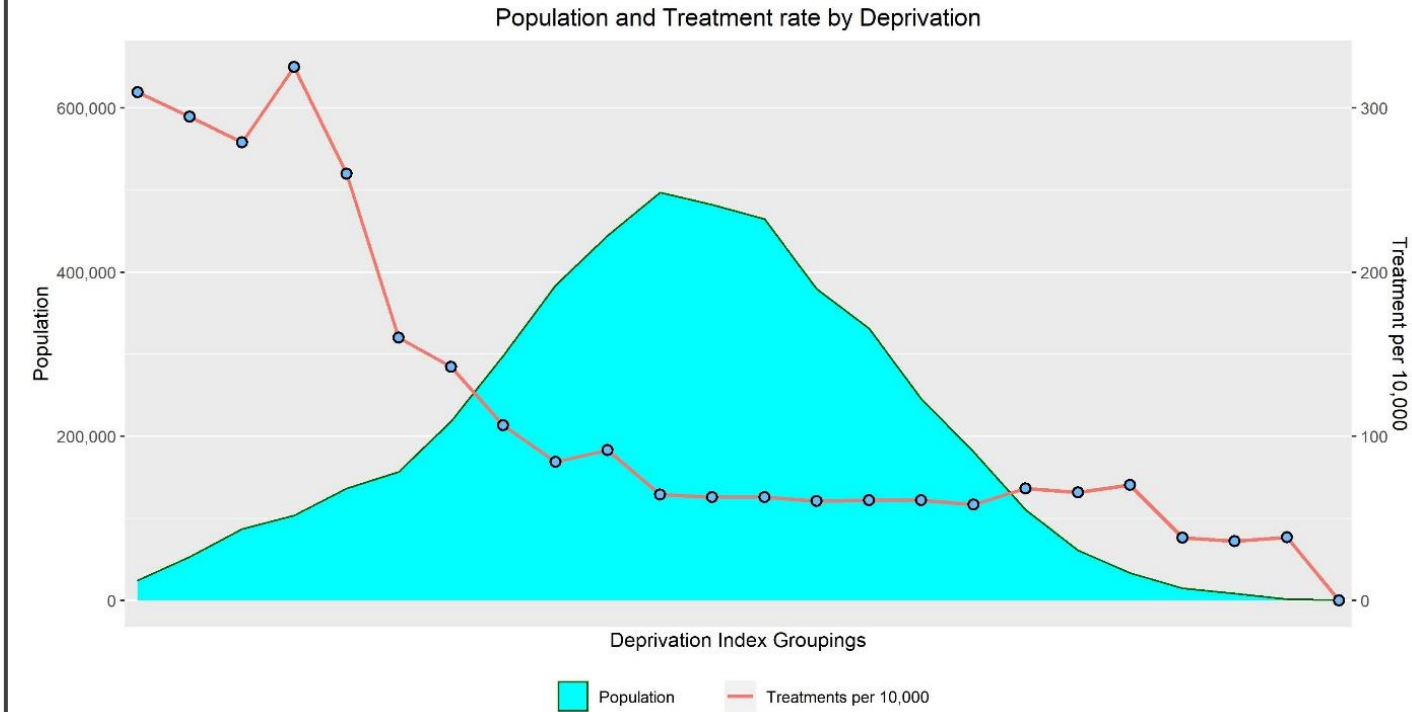
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Type of drug by Deprivation band

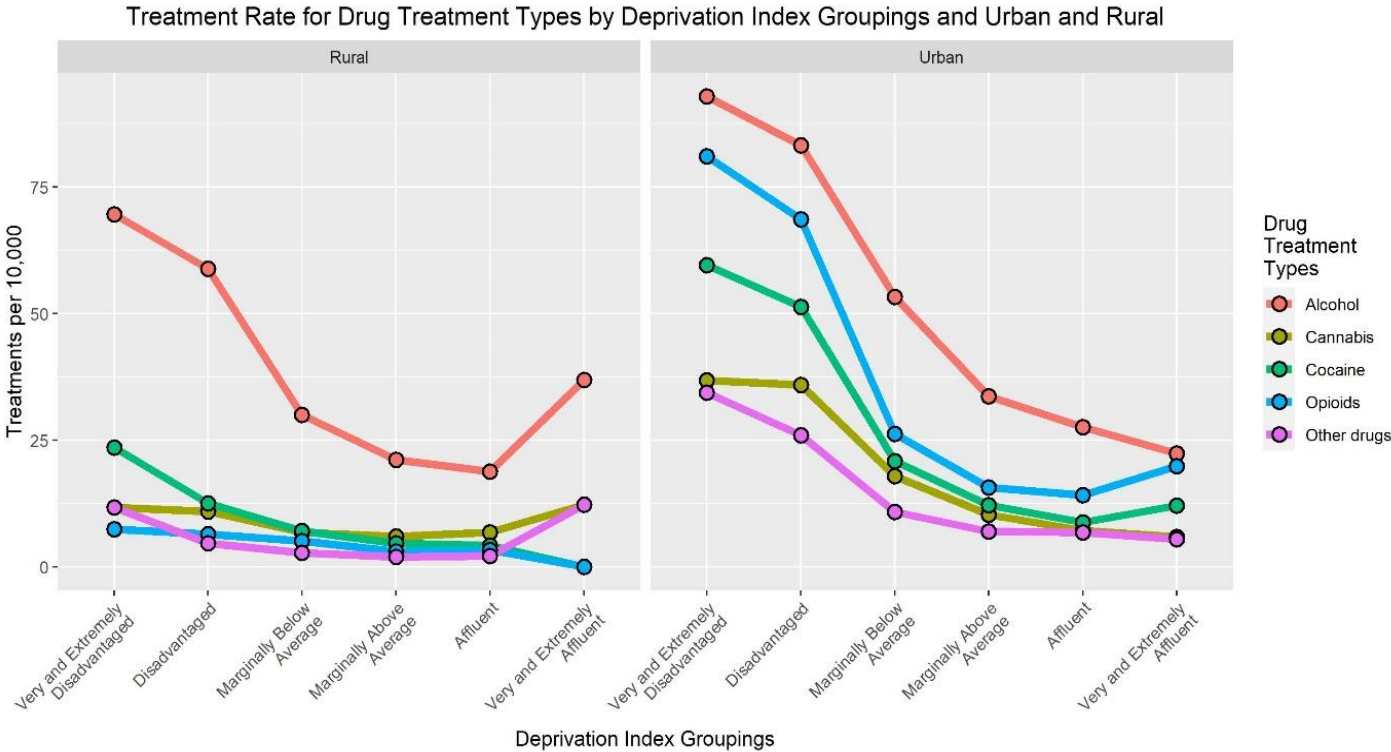
Opioid Treatment Distribution



Treatments per 10,000 population



Urban and Rural Analysis

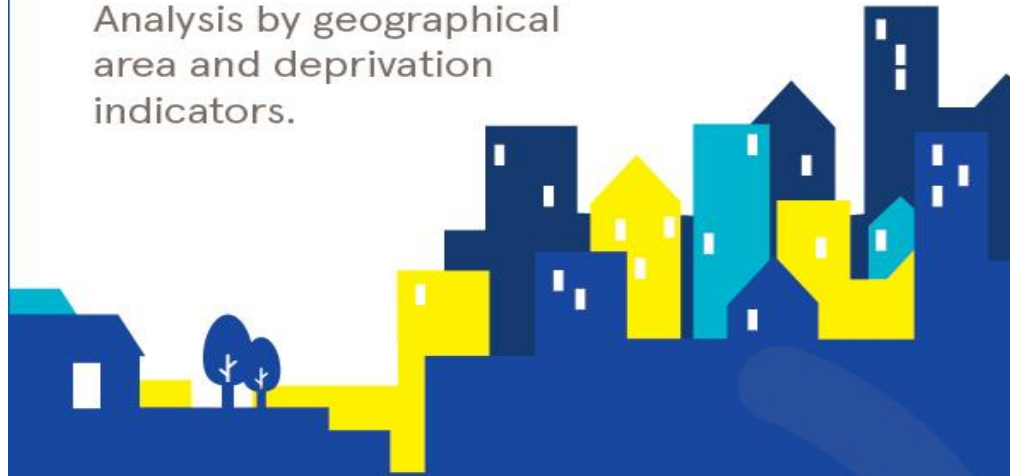




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Health Research Board Drugs and Alcohol Data

Analysis by geographical
area and deprivation
indicators.



A supplement to the Spring 2023
issue of Drugnet Ireland.

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Next Steps

- Consider how data could be used by Drug and Alcohol Task Forces
- Consider implications for Sláintecare reforms
- Repeat the analysis with the updated HP Index (2022 census)
- Undertake more in-depth analysis e.g. substance specific analysis, further rural / urban analysis.