

Recruitment of participants to research at UCLH: Analysis by geographically distributed indices of deprivation

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*Holger Engleitner, Ashwani Jha, Daniel Herron, Amy Nelson, Geraint Rees, Nick McNally, Bryan Williams (2021)
Enrolment in clinical research at UCLH and geographically distributed indices of deprivation. Wellcome Open 6:342*

Aims

- To demonstrate a quantitative approach to evaluating equity in healthcare research
- Is access to research at UCLH biased towards patients from areas with less deprivation?

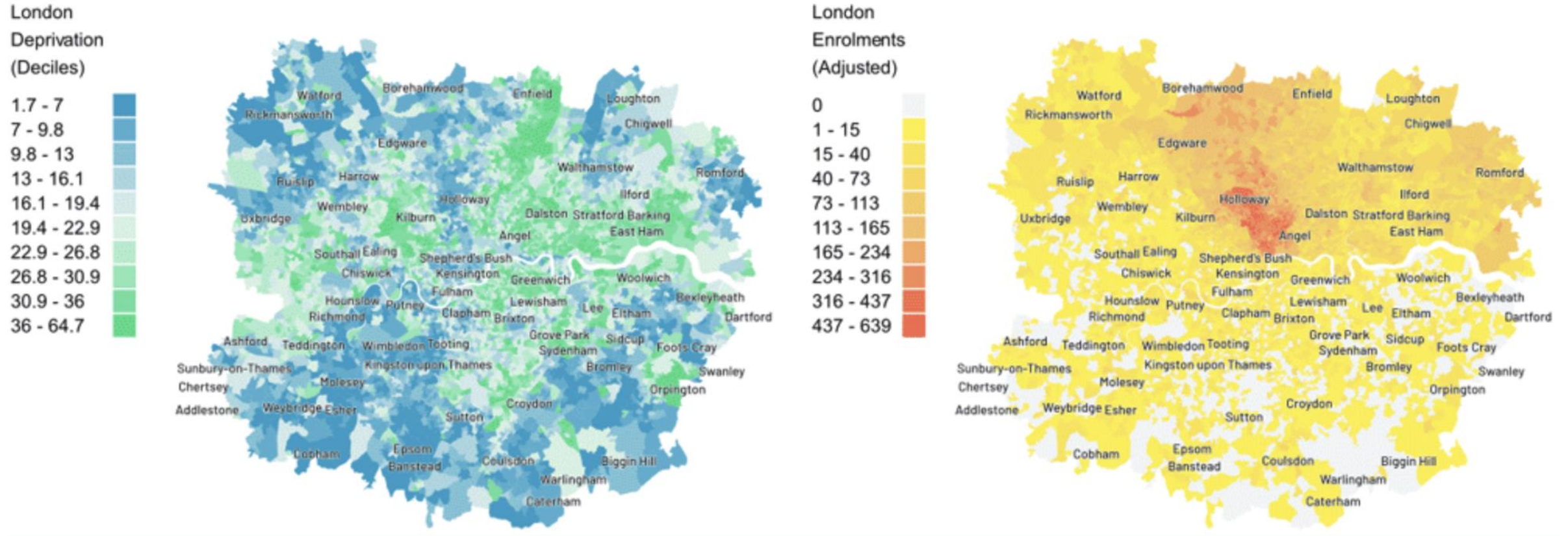
Methods

- Surveyed the geographical locations of all UCLH research participants in England
- Used 10 established indices of deprivation
- Normalized by 2 measures of need adjustment (population and local disease prevalence)
- Distance matched sub-sample to account for decrement beyond Greater London
- Regression models to examine the relation between deprivation and enrolment

Data

- 54,593 research participants
- Covering 4,401 Lower Layer Super Output Areas (LSOAs) in Greater London and 10,150 in England

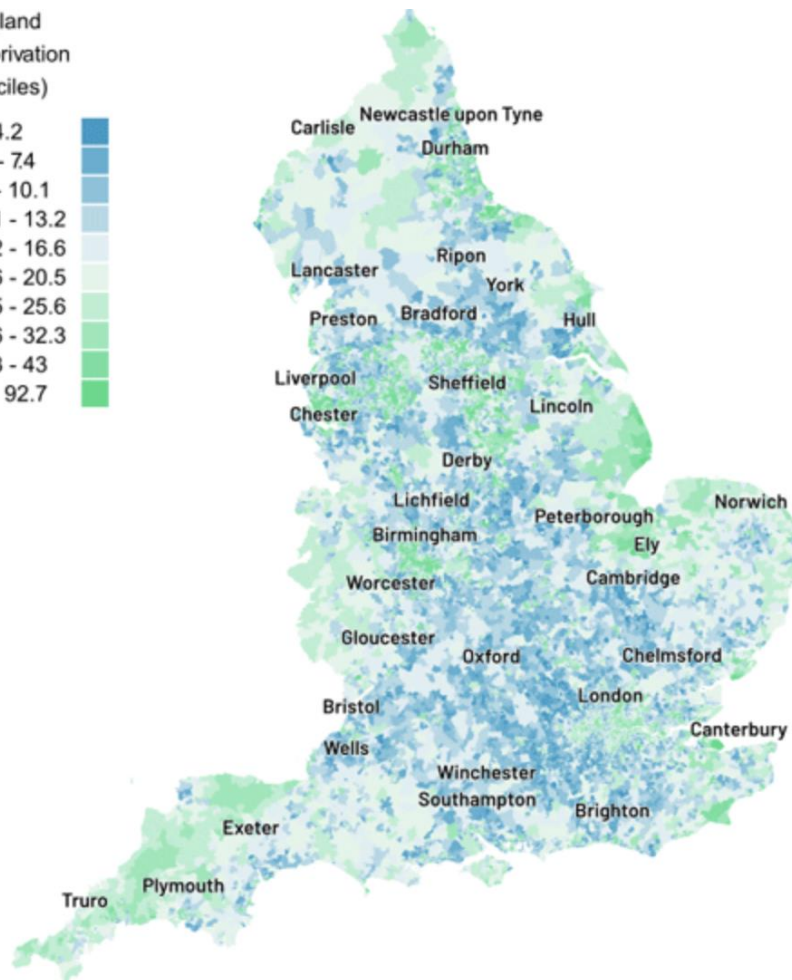
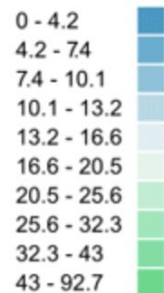
London



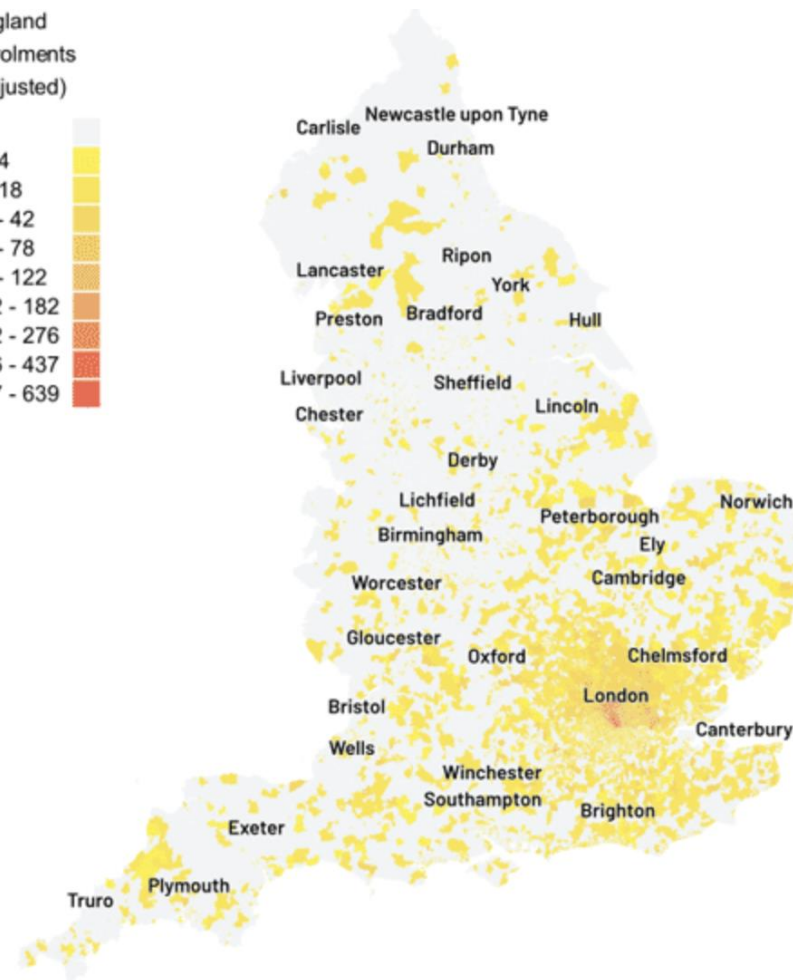
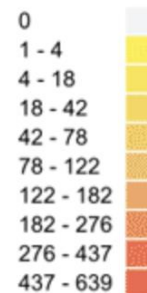
- Across London “enroled areas” were significantly more deprived on most indices

England

England
Deprivation
(Deciles)



England
Enrolments
(Adjusted)



- Distributions of deprivation indices were similar between enroled and non-enroled areas
- Regression analyses of enrolment volumes yielded weak biases towards greater deprivation

Conclusion

- Clinical research at UCLH has wide geographical reach
- Nationally, enroled areas show similar distributions of deprivation indices to those without
- In Greater London, enroled areas were significantly more deprived than non-enroled areas

More details:

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