**Online Supplementary Material**

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S1. The association of measures of specialist alcohol treatment provision, alcohol disease burden and socioeconomic deprivation with broad and narrow alcohol-related hospitalisation in local authorities in England

Tables

Table S1: The association of measures of specialist alcohol treatment provision, alcohol disease burden and socioeconomic deprivation with broad and narrow alcohol-related hospitalisation in local authorities in England

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | The age-standardised adult rate of alcohol-related hospital admission per 100,000 population | | | | | |
| Narrow | | | | Broad | |
| Unadjusted Beta Coefficient (95% CI) | p value | Adjusted Beta Coefficient (95% CI)1 | p value | Unadjusted Beta Coefficient (95% CI) | P value |
| **Measures of specialist alcohol treatment provision** |  | | | | | |
| Net local authority adult expenditure on treatment for alcohol misuse per 1000 population (£) | -0.001 (-0.004 to 0.001) | 0.38 | - | - | -0.0007 (-0.006 to 0.004) | 0.77 |
| Net local authority adult expenditure on preventing and reducing harm from alcohol misuse per 1000 population (£) | -0.001 (-0.003 to 0.005) | 0.16 | - | - | -0.014 (-0.024 to -0.004) | 0.01\* |
| The percentage of adults in specialist alcohol treatment who successfully completed treatment for alcohol dependence, and did not re-present within 6 months (%) | 0.24 (-1.14 to 1.61) | 0.73 | - | - | 1.43 (-3.13 to 5.99) | 0.54 |
| The adult treatment rate in specialist alcohol misuse services per 1000 population | 10.85 (-4.73 to 26.4) | 0.17 | - | - | 3.60 (-45.57 to 52.78) | 0.89 |
| The percentage of adults with alcohol dependence not in treatment (%) | -0.58 (-1.07 to -0.09) | 0.02\* | -0.57 (-1.06 to -0.86) | 0.02\* | -0.38 (-2.08 to 1.33) | 0.66 |
| **Measures of alcohol disease burden** |  | | | | | |
| Alcohol dependence prevalence (%)2 | -9.18 (-17.21 to -1.16) | 0.03\* | -9.10 (-16.9 to -1.26) | 0.02\* | -7.35 (-25.65 to 10.94) | 0.43 |
| **Measures of socioeconomic deprivation** |  | | | | | |
| Indices of Multiple Deprivation (IMD)2 | -0.54 ( -1.15 to 0.08) | 0.09 | - | - | -1.45 (-3.23 to 0.33) | 0.11 |

\* p<0.05; CI Confidence Interval; 1 Adjusted for all significant (p<0.05) covariates; 21 Repeated measures for these metrics were not available for each financial year