 Supplementary Figure S1: Self-reported bus pass ownership according to survey year and age group, presented separately by sex, occupation, rurality and access to car

 Supplementary Figure S2: Self-reported weekly bus use according to year and age group, presented separately by sex, occupation, rurality and access to car

Supplementary Table S1: Change per year in frequency of bus pass ownership by period and age group

|  |  |  |
| --- | --- | --- |
| Age group | Change per year in % owning bus pass | Difference in change per year in % owning bus pass comparing post-intervention period with pre-intervention period in 60-64 and 65-74 versus 50-59 year olds |
|  | Pre-intervention | Post-intervention |
|  |
| **Intervention 1: Change from half-price to free travel** |
| 50-5960-6465-69 | 0.0 (0.0, 0.0)3.3 (2.0, 4.7)0.8 (-0.3, 1.8) | 0.0 (0.0, 0.0)6.6 (5.3, 7.8)5.1 (4.2, 6.1) | Reference3.4 (1.7, 5.0) 4.5 (2.9, 6.1) |
| *p* |  |  | *<0.001* |
|  |  |  |  |
| **Intervention 2: Withdrawal of concession from 60-64 year olds** |
| 50-5960-6465-69 | 0.0 (0.0, 0.0)6.6 (5.3, 7.8)5.1 (4.2, 6.1) | 0.0 (0.0, 0.0)-7.5 (-8.0, -6.9)-0.9 (-1.3, -0.6) | Reference-14.1 (-15.1, -13.0) -6.6 (-7.6, -5.5) |
| *p* |  |  | *<0.001* |
|  |  |  |  |

Supplementary Table S2: Change per year in frequency of weekly bus use by period and age group

|  |  |  |
| --- | --- | --- |
| Age group | Change per year in % traveling weekly by bus  | Difference in change per year in % traveling weekly by bus comparing post-intervention period with pre-intervention period in 60-64 and 65-74 versus 50-59 year olds |
|  | Pre-intervention | Post-intervention |
|  |
| **Intervention 1: Change from half-price to free travel** |
| 50-5960-6465-69 | -0.4 (-1.5, 0.7)-1.6 (-3.4, 0.3)-0.3 (-1.8, 1.2) | 0.1 (-0.6, 0.8)1.6 (0.5, 2.7)2.2 (1.2, 3.2) | Reference2.6 (0.0, 4.9)1.2 (-0.1, 3.5) |
| *p* |  |  | *0.09* |
|  |  |  |  |
| **Intervention 2: Withdrawal of concession from 60-64 year olds** |
| 50-5960-6465-69 | 0.1 (-0.6, 0.8)1.6 (0.5, 2.7)2.2 (1.2, 3.2) | -0.3 (-0.6, -0.0)-1.8 (-2.2, -1.3)-0.8 (-1.2, -0.4) | Reference-2.9 (-4.1, -1.7)-2.9 (-4.1, -1.7) |
| *p* |  |  | *<0.001* |
|  |  |  |  |

Supplementary Table S3a: Change per year in frequency of weekly bus/underground travel for any purpose by period and age group

|  |  |  |
| --- | --- | --- |
| Age group | Change per year in % traveling weekly by bus/underground for any purpose  | Difference in change per year in % traveling weekly by bus/underground for any purpose comparing post-intervention period with pre-intervention period in 60-64 and 65-74 versus 50-59 year olds |
|  | Pre-intervention | Post-intervention |
|  |
| **Intervention 1: Change from half-price to free travel** |
| 50-5960-6465-69 | -0.3 (-1.1, 0.4)-1.9 (-3.1, -0.6)-0.7 (-1.7, 0.3) | 0.4 (-0.3, 1.2)1.3 (0.1, 2.4)1.3 (0.2, 2.3) | Reference2.2 (0.4, 4.1)0.7 (-1.1, 2.6) |
| *p* |  |  | *0.06* |
|  |  |  |  |
| **Intervention 2: Withdrawal of concession from 60-64 year olds** |
| 50-5960-6465-69 | 0.4 (-0.3, 1.2)1.3 (0.1, 2.4)1.3 (0.2, 2.3) | -0.1 (-0.4, 0.2)-1.5 (-2.0, -1.0)-0.5 (-0.9, -0.1) | Reference-2.2 (-3.4, -0.9)-1.5 (-2.8, -0.2) |
| *p* |  |  | *0.003* |
|  |  |  |  |

Supplementary Table S3b: Change per year in frequency of weekly bus/underground travel for shopping or access to services by period and age group

|  |  |  |
| --- | --- | --- |
| Age group | Change per year in % traveling weekly by bus/underground for shopping or access to services  | Difference in change per year in % traveling weekly by bus/underground for shopping or access to services comparing post-intervention period with pre-intervention period in 60-64 and 65-74 versus 50-59 year olds |
|  | Pre-intervention | Post-intervention |
|  |
| **Intervention 1: Change from half-price to free travel** |
| 50-5960-6465-69 | -0.1 (-0.6, 0.5)-1.9 (-3.0, -0.9)-0.3 (-1.2, 0.7) | -0.2 (-0.8, 0.3)1.2 (0.2, 2.2)1.1 (0.2, 2.0) | Reference3.2 (1.7, 4.7)1.0 (-0.5, 2.5) |
| *p* |  |  | *<0.001* |
|  |  |  |  |
| **Intervention 2: Withdrawal of concession from 60-64 year olds** |
| 50-5960-6465-69 | -0.2 (-0.8, 0.3)1.2 (0.2, 2.2)1.1 (0.2, 2.0) | -0.3 (-0.5, -0.1)-1.1 (-1.5, -0.7)-0.6 (-0.9, -0.2) | Reference-2.2 (-3.3, -1.2)-1.7 (-2.7, -0.6) |
| *p* |  |  | *<0.001* |
|  |  |  |  |