**File 9: Economic model 3: Sample, patient characteristics, use of resources, costs and health utility**

**Table 1: Economic model 3: Sample, patient characteristics, use of resources and costs (before and after analyses, Conf.2)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Type of variable** |  | **Baseline** | **Follow up** |  |  |
|  |  | Mean | SD | Mean | SD | P value | Diff (Fu-base) |
| **Sample size** | Sample size (n) | 64 | 100 | 50 | 100 |  |  |
| **Patient characteristics** | Age | 41.92 | 10.46 | 43.00 | 10.98 | 0.59 | 1.08 |
|  | Gender (Female; n,%) | 16 | 25 | 14 | 28 | 0.27 | -2 |
|  | Client type 1: Young homeless people (< 25 years old) (yes; n, %) | 4 | 6.3 | 3 | 6 | N/A | -1 |
|  | Client type 2 Alcohol dependent (yes; n, %) | 64 | 100 | 50 | 100 | 1.00 | -14 |
|  | Client type 3 Older homeless people (>60 years old), no family member to support them, physical/metal complications, alcohol dependent (yes; n, %) | 8 | 12.5 | 3 | 6 | N/A | -5 |
|  | Client type 4 Homeless people with mental complications (yes; n, %) | 3 | 4.7 | 3 | 6 | N/A | 0 |
|  | QALY (utility) | 0.48 | 0.26 | 0.64 | 0.22 | <0.01 | 0.16 |
| **Use of resources** | Visits to A&E | 2.67 | 2.90 | 2.40 | 4.64 | 0.7045 | -0.27 |
|  | Hospital Admissions | 1.66 | 2.75 | 1.20 | 2.02 | 0.3235 | -0.46 |
|  | Ambulance | N/A | N/A | N/A | N/A | N/A | N/A |
|  | Hospital outpatient attendances | 1.58 | 2.88 | 1.36 | 2.75 | 0.68 | -0.22 |
|  | GP visits | 5.23 | 3.79 | 5.68 | 7.58 | 0.6799 | 0.45 |
|  | Mental health services (yes) | 7 | 10.94 | 3 | 6.00 | N/A | -4 |
|  | Drug and alcohol services (yes) | 64 | 100 | 50 | 100 | 1 | -14 |
|  | Housing services - Rough sleeping support services (yes; n, %) | N/A | N/A | N/A | N/A | N/A | N/A |
|  | Housing services - Other services (yes; n, %) | 47 | 73.44 | 41 | 82.00 | 0.67 | -6.00 |
|  | Social care services- residential care (yes) | 1 | 1.56 | 0 | 0 | N/A | -1.00 |
|  | Criminal justice (yes; n, %) | 13 | 20.31 | 3 | 6.00 | N/A | -10.00 |
|  | Social benefits (yes; n, %) | 50 | 78.13 | 42 | 84.00 | 0.72 | -8.00 |
|  | State pension (yes; n, %) | 2 | 3.13 | 1 | 2.00 | N/A | -1.00 |
| **Costs** | Visits to A&E | 419.48 | 454.56 | 376.8 | 728.84 | 0.7025 | -42.68 |
|  | Hospital Admissions | 2953.09 | 4903.25 | 2139.60 | 3602.20 | 0.3274 | -813.49 |
|  | Ambulance | N/A | N/A | N/A | N/A | N/A | N/A |
|  | Hospital outpatient attendances | 216.20 | 394.21 | 186.32 | 377.24 | 0.68 | -29.88 |
|  | GP visits | 198.91 | 144.06 | 215.84 | 288.22 | 0.68 | 16.93 |
|  | **Total healthcare costs (all above apart from: GP and outpatient attendances (**Conf.3**); ambulance (**Conf.2**))** | 3787.69 | 5507.36 | 2918.56 | 4028.85 | 0.3509 | -869.13 |
|  | **Total hospital healthcare costs (hospitalisation, A&E)** | 3372.58 | 5230.38 | 2516.40 | 4008.30 | 0.34 | -856.18 |
|  | **Mental health care costs** | 167.34 | 497.94 | 78.40 | 331.63 | 0.2789 | -88.94 |
|  | **Drug and alcohol treatment costs** | 2725.80 | 11251.78 | 3533.44 | 2088.67 | 0.6178 | 807.64 |
|  | **Housing costs** | 14796.87 | 12859.73 | 9725.88 | 7400.18 | 0.01 | -5070.99 |
|  | **Social care costs** | 26.53 | 98.26 | 61.60 | 193.94 | 0.2118 | 35.07 |
|  | **Social care only residential care** | 8.48 | 67.88 | 0 | 0 | 0.38 | -8.48 |
|  | **Criminal justice costs** | 2201.02 | 6595.47 | 1491.20 | 7848.66 | 0.60 | -709.82 |
|  | **Social benefits/state pension** | 3947.98 | 2592.19 | 4085.47 | 2244.66 | 0.7664 | 137.49 |
|  | **Total public sector costs (all above)** | 27653.22 | 20141.76 | 21894.55 | 9919.39 | 0.0666 | -5758.67 |
|  | Intervention costs – Conf.3 | N/A | N/A | N/A | N/A | N/A | N/A |
|  | Intervention costs – Conf.2 | 0 | 0 | 6092.62 | 0 |  | 6092.62 |
|  | **Total hospital healthcare costs (hospitalisation, A&E) plus intervention** | 3372.58 | 13426.44 | 6128.24 | 4579.24 | 0.1678 | 2755.66 |
|  | **Total public sector costs (all above) plus intervention** | 27653.22 | 20141.76 | 27987.17 | 9919.39 | 0.91 | 333.95 |

Note: QALY= Quality adjusted life years; A&E = accident and emergency

**File 9: Table 2: Economic model 3: Costs (before and after analyses, Conf.3)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | **Baseline** | **Follow up** |  |  |
|  |  | **Mean** | **SD** | **Mean** | **SD** | **P value** | **Diff (Fu-base)** |
| **Type of resource** |  |   |   |   |   |   |   |
| **Healthcare** | **A&E (A&E attendance (all scenarios))\*\*** | 603.83 | 1059.49 | 167.84 | 153.58 | p<0.01 | -435.99 |
|  | **Hospitalisation (Hospital inpatients - average cost per episode )\*\*** | 4217.73 | 2160.23 | 1741.57 | 1593.59 | p<0.01 | -2476.16 |
|  | **GP visits (GP contact - cost per face-to-face consultation with patients (average 11.7 minutes)** | 0 | 0 | 577.02 | 167.84 | p<0.01 | 577.02 |
|  | **999 Ambulance (average all callouts)\*\*** | 346.54 | 422.9 | 195.05 | 178.48 | p<0.01 | -151.49 |
| **Mental health services** |  | 226.7 | 330.88 | 0 | 0 | p<0.01 | -226.7 |
| **Drug/alcohol treatment** |  | 304.21 | 897.64 | 0 | 0 | p<0.01 | -304.21 |
| Conf.3 **intervention**  |  | 0 | 0 | 2135 | 0 | p<0.01 | 2135 |
| **Rough Sleeper** |  | 1743.34 | 3617.11 | 0 | 0 | p<0.01 | -1743.34 |
| **Care/Residential Home** |  | 336.14 | 3080.8 | 581.23 | 531.84 | p<0.01 | 245.09 |
| **Total NHS**  |  | 5168.1 | 2511.73 | 2702.24 | 2453.64 | p<0.01 | -2465.86 |
| **Total public sector costs no intervention** |  | 7799.31 | 5191.66 | 3345.68 | 3061.4 | p<0.01 | -4453.63 |
| **Total costs (including intervention)** |  | 7799.31 | 5191.66 | 5480.68 | 5196.4 | p<0.01 | -2318.63 |
| **QALY** |  | 0.54 | 0.3 | 0.76 | 0.19 | p<0.01 | 0.22 |

Note: QALY= Quality adjusted life years; A&E = accident and emergency