*Table 1. All variables considered in the analysis by the reporting of the three outcomes. Any numbers below 5 were rounded up to 5.*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | ≥ 5 appointments | ≥ 2 admissions  | ≥ 3 appointments and ≥ 1 admission  |
|  |  | NoN(%)  | YesN(%) | *Total*  | NoN(%)  | YesN(%) | *Total*  | NoN(%)  | YesN(%) | *Total*  |
| School Type  | Primary  | 3792(77.0) | 1134(23.0) | *4926* | 4174(84.7) | 752(15.3) | *4926* | 3849(78.1) | 1077(21.9) | *4926* |
| Secondary  | 1405(74.1) | 492(25.9) | *1897* | 1571(82.8) | 326(17.2) | *1897* | 1450(76.4) | 447(23.5) | *1897* |
| Private School  | Yes  | 135(81.3) | 31(18.7) | *166* | 152(91.6) | 14(8.4) | *166* | 140(84.3) | 26(15.7) | *166* |
| No  | 5205(76.0) | 1644(24.0) | *6849* | 5750(84.0) | 1099(16.1) | *6849* | 5307(77.5) | 1542(22.5) | *6849* |
| Percentage of Year Absent  | Less than 12.5% | 5167(76.2) | 1617(23.8) | *6784* | 5714(84.2) | 1070(15.8) | *6784* | 5264(77.6) | 1520(22.4) | *6784* |
| More than 12.5% | 178(75.1) | 59(24.9) | *237* | 194(81.9) | 43(18.1) | *237* | 189(79.8) | 48(20.3) | *237* |
| School IQ – mean (SD) Outcome = No | 112.2 (6.9) | *5213* | 112.1 (6.8) | *5752* | 112.0 (7.5) | *5337* |
| School IQ – mean (SD) Outcome = Yes | 111.0 (5.9) | *1623* | 110.7 | *1084* | 110.4 (7.4) | *1542* |
| Moray House Intelligence Test – mean (SD)Outcome = No | 110 (16) | *5149* | 110 (16) | *5681* | 106 (26) | *5453* |
| Moray House Intelligence Test – mean (SD)Outcome = Yes  | 107 (16) | *1617*  | 106 (15) | *1085* | 103 (23) | *1568* |
| Moray House Verbal Reasoning – mean (SD)Outcome = No | 119 (40) | *5345* | 120 (40) | *5908* | 120 (40) | *5453* |
| Moray House Verbal Reasoning – mean (SD)Outcome = Yes | 118 (40) | *1676* | 118 (39) | *1113* | 118 (39) | *1568* |
| Schonell and Adams Essential Intelligence test – mean (SD)Outcome = No | 115 (16) | *5057* | 115 (16) | *5590* | 109 (31) | *5453* |
| Schonell and Adams Essential Intelligence test – mean (SD)Outcome = Yes | 111 (16) | *1590* | 111 (16) | *1057* | 105 (28) | *1568* |
| Physical grade  | Good  | 3374(75.6) | 1088(24.4) | *4462* | 3731(83.6) | 731(16.4) | *4462* | 3452(77.4) | 1010(22.6) | *4462* |
| Average  | 700(76.3) | 218(23.8) | *918* | 783(85.3) | 135(14.7) | *918* | 719(78.3) | 199(21.7) | *918* |
| Poor  | 227(81.1) | 53(18.9) | *280* | 247(88.2) | 33(11.8) | *280* | 234(83.6) | 46(16.4) | *280* |
| Serious | 44(89.8) | 5(10.2) | *49* | 47(95.9) | 2(4.1) | *49* | 43(87.8) | 6(12.2) | *49* |
| Not known | 1000(76.2) | 312(23.8) | *1312* | 1100(95.9) | 212(16.2) | *1312* | 1005(76.6) | 307(23.4) | *1312* |
| Birthweight | Below 2500g | 5040(76.3) | 1565(23.7) | *6605* | 5567(84.3) | 1038(15,7) | *6605* | 5129(77.7) | 1476(22.4) | *6605* |
| Over 2500g | 296(73.3) | 108(26.7) | *404* | 329(81.4) | 75(18.6) | *404* | 313(77.5) | 91(22.5) | *404* |
| Maternal occupation  | Professional  | 230(80.4) | 56(19.6) | *286* | 255(89.2) | 31(10.8) | *286* | 240(83.9) | 46(16.1) | *286* |
| Clerical  | 1079(81.1) | 251(18.9) | *1330* | 1171(88.1) | 159(12.0) | *1330* | 1110(83.5) | 220(16.5) | *1330* |
| Distribution | 875(79.6) | 224(20.4) | *1099* | 949(86.4) | 150(13.7) | *1099* | 893(81.3) | 206(18.7) | *1099* |
| Skilled | 1094(75.9) | 348(24.1) | *1442* | 1203(83.4) | 239(16.6) | *1442* | 1091(75.7) | 351(24.3) | *1442* |
| Semi-skilled | 907(74.5) | 311(25.5) | *1218* | 1009(82.8) | 209(17.2) | *1218* | 920(75.5) | 298(24.5) | *1218* |
| Unskilled | 237(70.5) | 99(29.5) | *336* | 268(79.8) | 68(20.2) | *336* | 251(74.7) | 85(25.3) | *336* |
| Fishwork | 382(67.1) | 187(32.9) | *569* | 443(77.9) | 126(22.1) | *569* | 388(68.2) | 181(31.8) | *569* |
| Manual | 99(66.9) | 49(33.1) | *148* | 116(78.4) | 32(21.6) | *148* | 105(71.0) | 43(29.1) | *148* |
| No job/not know  | 442(74.5) | 151(25.5) | *593* | 494(83.3) | 99(16.7) | *593* | 455(76.7) | 138(23.3) | *593* |
| Father’s social class  | I | 170(86.9) | 28(14.1) | *198* | 176(88.9) | 22(11.1) | *198* | 173(87.4) | 25(12.6) | *198* |
| II | 476(81.9) | 105(18.1) | *581* | 521(89.7) | 60(10.3) | *581* | 483(83.1) | 98(16.9) | *581* |
| III | 3047(77.2) | 898(22.8) | *3945* | 3357(85.1) | 588(14.9) | *3945* | 3116(79.0) | 829(21.0) | *3945* |
| IV | 688(72.8) | 257(27.2) | *945* | 758(80.2) | 187(19.8) | *945* | 696(73.7) | 249(26.4) | *945* |
| V | 724(71.3) | 291(28.7) | *1015* | 824(81.2) | 191(18.8) | *1015* | 739(72.8) | 276(27.2) | *1015* |
| Unemployed | 240(71.2) | 97(28.8) | *337* | 272(80.7) | 65(19.3) | *337* | 246(73.0) | 91(27.0) | *337* |
| Maternal age – mean (SD)Outcome = No | 27 (5) | *4724* | 27 (5) | *5223* | 27 (5) | *4816* |
| Maternal age – mean (SD)Outcome = Yes | 27 (5) | *1493* | 27 (5) | *994* | 27 (5) | *1401* |
| Rutter behaviour – mean (SD)Outcome = No | 2 (3) | *5224* | 2 (3) | *5777* | 2 (3) | *5329* |
| Rutter behaviour – mean (SD)Outcome = Yes | 3 (4) | *1645* | 3 (4) | *1092* | 3 (4) | *1540* |
| Smoking status  | Never | 2639(78.6) | 717(21.4) | *3356* | 2937(87.5) | 419(12.5) | *3356* | 2721(81.1) | 635(18.9) | *3356* |
| Ex-smoker | 1328(75.7) | 427(24.3) | *1755* | 1469(83.7) | 286(16.3) | *1755* | 1338(76.2) | 417(23.8) | *1755* |
| Current smoker | 1367(72.1) | 529(27.9) | *1896* | 1490(78.6) | 406(21.4) | *1896* | 1383(72.9) | 513(27.1) | *1896* |
| Employment status  | Employed  | 4680(78.4) | 1289(21.6) | *5969* | 5134(86.0) | 835(14.0) | *5969* | 4770(79.9) | 1199(20.1) | *5969* |
| Unemployed | 129(68.3) | 60(31.8) | *189* | 140(74.1) | 49(25.9) | *189* | 129(68.3) | 60(31.8) | *189* |
| Permanently sick or disabled  | 175(46.8) | 199(53.2) | *374* | 228(61.0) | 146(39.0) | *374* | 182(48.7) | 192(51.3) | *374* |
| Looking after the family  | 235(76.8) | 71(23.2) | *306* | 270(88.2) | 36(11.8) | *306* | 248(81.1) | 58(19.0) | *306* |
| Other  | 114(68.7) | 52(31.3) | *166* | 124(74.7) | 42(25.3) | *166* | 113(68.1) | 53(31.9) | *166* |
| Housing tenure | Mortgage | 4522(78.5) | 1239(21.5) | *5761* | 4956(86.0) | 805(14.0) | *5761* | 4608(80.0) | 1153(20.0) | *5761* |
| Private rent | 105(76.1) | 33(23.9) | *138* | 115(83.3) | 23(16.7) | *138* | 102(73.9) | 36(26.1) | *138* |
| Rent from local authority  | 620(63.0) | 364(37.0) | *984* | 730(74.2) | 254(25.8) | *984* | 646(65.7) | 338(34.4) | *984* |
| Other  | 90(70.3) | 38(29.7) | *128* | 98(76.6) | 30(23.4) | *128* | 89(69.5) | 39(30.5) | *128* |
| Number of LTCs | None  | 4698(80.7) | 1121(19.3) | *5819* | 5074(87.2) | 745(12.8) | *5819* | 4732(81.3) | 1087(18.7) | *5819* |
| 1 | 462(57.1) | 347(42.9) | *809* | 584(72.2) | 225(27.8) | *809* | 517(63.9) | 292(36.1) | *809* |
| 2+ | 185(47.1) | 208(52.9) | *393* | 250(63.6) | 143(36.4) | *393* | 204(51.9) | 189(48.1) | *393* |
| Age left school  | 15 and under  | 2303(71.5) | 919(28.5) | *3222* | 3312(87.7) | 464(12.3) | *3776* | 3109(82.3) | 667(17.7) | *3776* |
| 16 and over  | 3024(80.1) | 752(19.9) | *3776* | 2576(80.0) | 646(20.1) | *3222* | 2325(72.2) | 897(28.8) | *3222* |
| BMI – mean (SD)Outcome = No | 26.1 (4.4) | *4787* | 26.3 (4.6) | *5279* | 26.2 (4.6) | *4883* |
| BMI – mean (SD)Outcome = Yes | 27.3 (5.6) | *1480* | 27.0 (5.2) | *988* | 27.0 (5.3) | *1384* |

*Table 2. Coefficients from logistic regression modelling of 5 or more outpatient appointments. Variables retained following stepwise backwards elimination. (n=5124).*

|  |  |  |  |
| --- | --- | --- | --- |
|   |   | Coef | 95% CI |
| School type | Primary | Ref | Ref |
| Secondary | 1.14 | 0.99-1.31 |
| School mean IQ  |  | 0.98 | 0.97-0.99 |
| Schonell and Adams Essential intelligence test score |  | 0.99 | 0.98-0.99 |

*Table 3. Coefficients from logistic regression modelling of 2 or more hospital admissions. Variables retained following stepwise backwards elimination. (n=5124)*

|  |  |  |  |
| --- | --- | --- | --- |
|   |   | Coef | 95% CI |
| Private school  | No | Ref | Ref |
| Yes | 0.33 | 0.07-1.37 |
| Absence from school  | 12.5% or less  | Ref | Ref |
| 12.5-25.0%  | 1.54 | 0.93-2.54 |
| 25.0% or over | 2.56 | 0.46-14.3 |
| Moray house intelligence test score  |  | 0.99 | 0.98-0.99 |
| Schonell and Adams Essential intelligence test score |  | 0.99 | 0.98-0.99 |

|  |  |  |  |
| --- | --- | --- | --- |
|   |   | Coef | 95% CI |
| School IQ  |  | 0.98 | 0.97-0.99 |
| Schonell and Adams Essential intelligence test score |  | 0.98 | 0.98-0.99 |

*Table 4. Coefficients from logistic regression modelling of 3 or more outpatient appointment and 1 or more hospital admissions. Variables retained following stepwise backwards elimination. (n=5124)*