Assessment and referral in suspected COVID-19: a community based observational study

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*Additional file 3: Participant characteristics, stratified by referral status*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |   | **Referred** | **Total**  |  |
|   |   | **Yes (n=95)**  | **No (n=586)**  | **(n=681)**  |  |
|   |   | **N**  | **(%)**  | **N**  | **(%)**  | **N**  | **(%)**  | **P\*\***  |
| Age (years)  | 16-29  | 9 | (9.5) | 93 | (15.9) | 102  | (15.0)  | **0.001** |
| 30-44  | 14 | (14.7) | 145 | (24.7) | 159  | (23.4)  |
| 45-59  | 32 | (33.7) | 174 | (29.7) | 206  | (30.3)  |
| 60-74  | 25 | (26.3) | 131 | (22.4) | 156  | (22.9)  |
| 75+  | 15 | (15.8) | 43 | (7.3) | 58  | (8.5)  |
| Sex  | Female  | 64 | (67.4) | 377 | (64.3) | 441  | (64.8)  | 0.609 |
| Male  | 31 | (32.6) | 206 | (35.2) | 237  | (34.8)  |
| Missing  | 0 | - | 3 | (0.5) | 3  | (0.4)  |
| Townsend quintile (1st=lowest deprivation) | 1st  | 9 | (9.5) | 49 | (8.4) | 58  | (8.5)  | 0.236 |
| 2nd | 9 | (9.5) | 67 | (11.4) | 76  | (11.2)  |
| 3rd  | 12 | (12.6) | 109 | (18.6) | 121  | (17.8)  |
| 4th | 20 | (21.1) | 132 | (22.5) | 152  | (22.3)  |
| 5th  | 42 | (44.2) | 206 | (35.2) | 248  | (36.4)  |
| Missing  | 3 | (3.2) | 23 | (3.9) | 26  | (3.8)  |
| Referral symptoms  | Fever  | 46 | (48.4) | 242 | (41.3) | 288  | (42.3)  | 0.1923 |
| Cough  | 52 | (54.7) | 399 | (68.1) | 451  | (66.2)  | 0.0107 |
| Dyspnoea  | 64 | (67.4) | 351 | (59.9) | 415  | (60.9)  | 0.1662 |
| Confusion  | 2 | (2.1) | 4 | (0.7) | 6  | (0.9)  | 0.1687 |
| Risk factors  | High risk\*  | 10 | (10.5) | 31 | (5.3) | 41  | (6.0)  | 0.0466 |
| Cardiovascular disease  | 8 | (8.4) | 42 | (7.2) | 50  | (7.3)  | 0.6638 |
| Diabetes  | 11 | (11.6) | 40 | (6.8) | 51  | (7.5)  | 0.1025 |
| COPD  | 17 | (17.9) | 99 | (16.9) | 116  | (17.0)  | 0.8098 |
| BMI >30  | 10 | (10.5) | 66 | (11.3) | 76  | (11.2)  | 0.8325 |
| Observations  | Pulse rate >90 bpm  | 45 | (47.4) | 198 | (33.8) | 243  | (35.7)  | 0.0104 |
| Temperature >37.8  | 23 | (24.2) | 44 | (7.5) | 67  | (9.8)  | **<0.001**  |
| Respiratory rate >20  | 42 | (44.2) | 123 | (21.0) | 165  | (24.2)  | **<0.001**  |
| Oxygen saturation <96%  | 25 | (26.3) | 61 | (10.4) | 86  | (12.6)  | **<0.001** |
| SBP <110 mmHg  | 22 | (23.2) | 109 | (18.6) | 131  | (19.2)  | 0.2959 |
| NEWS2        | 0  | 20 | (21.1) | 258 | (44.0) | 278  | (40.8)  | **<0.001** |
| 1  | 16 | (16.8) | 155 | (26.5) | 171  | (25.1)  |
| 2  | 18 | (19.0) | 74 | (12.6) | 92  | (13.5)  |
| 3  | 12 | (12.6) | 34 | (5.8) | 46  | (6.8)  |
| 4  | 6 | (6.3) | 17 | (2.9) | 23  | (3.4)  |
| 5+  | 11 | (11.6) | 10 | (1.7) | 21  | (3.1)  |
| Missing  | 12 | (12.6) | 38 | (6.5) | 50  | (7.3)  |
| Severity \*\*\*  | Mild  | 35 | (36.8) | 366 | (62.5) | 401  | (58.9)  | 0.169  |
| Moderate  | 44 | (46.3) | 197 | (33.6) | 241  | (35.4)  |
| Severe  | 16 | (16.8) | 23 | (3.9) | 39  | (5.7)  |
| Re-attendance  |   | 0 | - | 7 | (1.2) | 7  | (1.03)  | - |

BMI=body mass index, COPD=chronic obstructive pulmonary disease, NEWS2=National Early Warning Score 2, SBP=Systolic Blood Pressure

\*Deemed by referring clinician to be at high clinical risk

\*\*Threshold for statistical significance corrected to 0.002 using the Bonferroni correction

\*\*\*Severity graded according to NHSE algorithm