Supplemental Table 1. Comparison of patients hospitalized with severe acute respiratory infection with comorbidity to those with no comorbidity, Arizona, 2010-2014

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| --- | --- | --- | --- |
| Characteristics | SARI cases with comorbidities  (n=251) n (%) | SARI cases with no comorbidities  (n=81) n (%) | p value |
| **Demographics** |  |  |  |
| Male | 131 (52) | 43 (53) | 0.9 |
| Median age in years (range) | 68 (19-97) | 38 (0-85) |  |
| **Signs/Symptoms at admission** |  |  |  |
| Cough | 226 (90) | 74 (91) | 0.73 |
| Shortness of breath | 195 (78) | 59 (73) | 0.37 |
| Fever (T≥37.8°C) | 177 (71) | 63 (78) | 0.2 |
| Clinical suspicion of pneumonia | 180 (74) | 52 (64) | 0.09 |
| Sputum production | 137 (55) | 37 (46) | 0.2 |
| Chills | 126 (50) | 38 (47) | 0.6 |
| Feverish | 96 (38) | 25 (31) | 0.2 |
| Body ache | 75 (30) | 34 (42) | 0.04 |
| Wheezing | 64 (26) | 30 (37) | 0.05 |
| Nasal congestion | 60 (24) | 32 (40) | 0.01 |
| Nausea or vomiting | 65 (26) | 23 (28) | 0.7 |
| Headache | 59 (24) | 27 (33) | 0.08 |
| Sore throat | 51 (20) | 25 (31) | 0.05 |
| Diarrhea | 34 (14) | 13 (16) | 0.6 |
| **Outcomes** |  |  |  |
| Admission to intensive care unit | 101 (43) | 19 (30) | 0.05 |
| Intubation | 41 (22) | 12 (27) | 0.5 |
| Death | 25 (10) | 3 (3.7) | 0.07 |
| **Virology** |  |  |  |
| Influenza virus | 38 (15) | 11 (14) | 0.73 |
| Human metapneumovirus | 18 (7.2) | 7 (8.6) | 0.66 |
| >1 viral pathogen | 95 (34) | 39 (48) | 0.1 |

Supplemental Table 2. Comparison of patients hospitalized with severe acute respiratory infection with a viral pathogen to those with no viral pathogen identified, Arizona, 2010-2014

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| --- | --- | --- | --- |
| Characteristics | SARI cases tested positive for viral infections   (n=134) n(%) | SARI cases tested negative for viral infections   (n=198) n(%) | p value |
| **Demographics** |  |  |  |
| Male | 64 (48) | 110 (56) | 0.16 |
| Median age in years (range) | 64 (0-97) | 63 (0-91) |  |
| **Signs/Symptoms at admission** |  |  |  |
| Cough | 125 (93) | 175 (88) | 0.14 |
| Shortness of breath | 103 (77) | 151 (76) | 0.90 |
| Fever (T≥37.8°C) | 104 (77) | 136 (69) | 0.07 |
| Clinical suspicion of pneumonia | 89 (67) | 143 (75) | 0.14 |
| Sputum production | 72 (54) | 102 (52) | 0.69 |
| Chills | 61 (46) | 103 (52) | 0.25 |
| Feverish | 48 (36) | 73 (37) | 0.85 |
| Body ache | 43 (32) | 66 (33) | 0.81 |
| Wheezing | 43 (32) | 51 (26) | 0.21 |
| Nasal congestion | 41 (31) | 51 (26) | 0.33 |
| Nausea or vomiting | 35 (26) | 53 (27) | 0.89 |
| Headache | 31 (23) | 55 (28) | 0.34 |
| Sore throat | 35 (26) | 41 (21) | 0.25 |
| Diarrhea | 18 (13) | 29 (15) | 0.76 |
| **Outcomes** |  |  |  |
| Admission to intensive care unit | 36 (32) | 84 (46) | 0.01 |
| Intubation | 18 (20) | 35 (24) | 0.49 |
| Death | 11 | 17 | 0.44 |
| **Influenza vaccination** | 56/98 (57) | 76/135 (56) | 0.90 |