**Supplemental Table 2.** Characteristics of patients who did not receive early mechanical ventilation (excluding those chronically ventilated through a tracheostomy) during admission with seasonal influenzaand presumed 2009 pandemic H1N1 (pH1N1).

Seasonal influenza Presumed pH1N1

n=9,417 (%) n=9,240 (%) P

*Gender* 0.25

Male 5,336 (57%) 5,312 (57%)

Female 4,081 (43%) 3,928 (43%)

*Age*median (interquartile range) 1.9 (0.5, 6.3) 4.9 (1.4, 9.4) <0.001

*Race* <0.001

White 5,902 (63%) 4,591 (50%)

Black 2,428 (26%) 2,324 (25%)

Non-White, non-Black 1,087 (12%) 2,325 (25%)

*Primary payer* <0.001

Government 5,107 (54%) 3,470 (38%)

Private 2,418 (26%) 3,047 (33%)

Self-pay 202 (2.2%) 158 (1.7%)

Other/missing 1,690 (18%) 2,565 (28%)

*Influenza season*

2006 - 07 2,644 (28%)

2007 - 08 4,024 (43%)

2008 - 09 2,749 (29%)

*Health status* <0.001

Previously healthy 4,230 (45%) 3,326 (36%)

Non-ACIP condition 634 (6.7%) 501 (5.4%)

ACIP-defined condition 4,553 (48%) 5,413 (59%)

Asthma 1,762 (19%) 2,850 (31%) <0.001

Non-asthma chronic lung disease 742 (7.9%) 754 (8.2%) 0.48

Cardiovascular disease 540 (5.7%) 453 (4.9%) 0.01

Immunosuppression 948 (10%) 840 (9.1%) 0.02

Hematologic disease 409 (4.3%) 459 (5.0%) 0.04

Renal disease 102 (1.1%) 109 (1.2%) 0.53

Metabolic disease 309 (3.3%) 401 (4.3%) <0.001

Neurological disease 1,146 (12%) 1,144 (12%) 0.66

Hepatic disease 70 (0.7%) 55 (0.6%) 0.22

Chronic aspirin use 22 (0.2%) 24 (0.3%) 0.72

*Treatment and complications*

Influenza antiviral medication 1,791 (19%) 6,460 (70%) <0.001

Bacterial pneumonia 409 (4.3%) 666 (7.2%) <0.001

PICU admission 1,338 (14%) 1,282 (14%) 0.51

Mechanical ventilation 216 (2.3%) 132 (1.4%) <0.001

High-frequency ventilation 35 (0.4%) 23 (0.3%) 0.13

Shock requiring vasopressors 245 (2.6%) 205 (2.2%) 0.09

Extracorporeal life support 14 (0.2%) 9 (0.1%) 0.41

Mortality *a* 58 (0.6%) 47 (0.5%) 0.44

*a* Due to a change in PHIS disposition variable format in 2009, mortality data is missing or unreliable for 373 patients.These patients were excluded from mortality analyses.

Abbreviations: ACIP: Advisory Committee on Immunization Practices. PICU: Pediatric intensive care unit