**eTable 2.** **Composite of Pulmonary complications**

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| Respiratory complications | 997.31….J95851  997.32…..J9589  997.39…..J95859, J9588, J9589 |
| Pulmonary infection, Pneumonia | 481………J13, J181  482………J150  483………J157, J160, J168  484………B250  485………J180  486………J189 |
| Respiratory failure and distress | 518.3……….J82  518.51………J95821, J9600  518.52………J952, J953  518.53………J95822, J9620  518.81………J9600, J9690  518.84………J9620 |
| Tracheitis and Bronchitis | 466……...J209  464………J040 |
| Pulmonary collapse | 518.0…….J9811, J9819 |
| Pulmonary edema | 518.4…….J810 |
| Pneumothorax and air leak | 512……….J930  512.84……J9382 |
| Hypoxemia | 799.02……..R0902  Defined by:  - Saturation <90%  - Use of Face mask with >6 L O2 Flow or Non-rebreather mask/Venti mask or CPAP/BIPAP use |
| Pleural effusion | 511.9……..J918 |
| Atelectasis | 518.0……..J9811, J9819 |
| ARDS | 518.5…….. J80  518.82…… J80 |
| Acute COPD exacerbation  Acute asthma exacerbation | 491.21……J441  493.92……J45901 |
| Other continuous invasive mechanical ventilation | Z99.1……Z99.12 |
| Re-intubation | Defined by: Re-intubation from notes |
| Transfusion-related acute lung injury | 518.7……..J9584 |
| Pulmonary embolism  Respiratory acidosis | 415.1……..I2699  276.2……..E872 |

This table shows the ICD9 and ICD 10 codes for each complication. The first number corresponds to ICD9 code and the second one corresponds to ICD 10 code. For example, 997.31 (ICD 9)….J95851 (ICD10).