**Supplementary file 2.** Contribution of Pulmonary ADEs in 2D and 3D PCAs.

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| --- | --- | --- | --- |
| **ADE in HLT codes** | **PC1 (%)** | **PC2 (%)** | **PC3 (%)** |
| Respiratory Failures (Excl Neonatal)  | 8.02  | 2.36  | 0.00  |
| Respiratory Tract Disorders Nec  | 7.81  | 1.53  | 0.01  |
| Bronchospasm and Obstruction  | 7.80  | 0.92  | 0.94  |
| Parenchymal Lung Disorders Nec  | 7.67  | 1.75  | 0.00  |
| Pulmonary Oedemas  | 7.62  | 1.45  | 0.04  |
| Coughing and Associated Symptoms  | 7.44  | 1.12  | 0.00  |
| Pneumothorax and Pleural Effusions Nec  | 7.42  | 1.09  | 0.02  |
| Pulmonary Thrombotic and Embolic Conditions  | 7.32  | 0.85  | 0.02  |
| Breathing Abnormalities  | 7.15  | 0.62  | 0.01  |
| Lower Respiratory Tract Inflammatory and Immunologic Conditions  | 6.89  | 0.32  | 0.03  |
| Lower Respiratory Tract Signs and Symptoms  | 6.58  | 0.01  | 0.07  |
| Lower Respiratory Tract Infections Nec  | 6.33  | 0.00  | 0.08  |
| Respiratory Signs and Symptoms Nec  | 2.56  | 5.92  | 3.73  |
| Pleural Infections and Inflammations  | 2.54  | 13.09  | 0.65  |
| Vascular Pulmonary Disorders Nec  | 2.50  | 13.94  | 0.01  |
| Bronchial Conditions Nec  | 2.45  | 10.83  | 0.64  |
| Respiratory Syncytial Viral Infections  | 1.06  | 13.88  | 4.99  |
| Fungal Lower Respiratory Tract Infections  | 0.41  | 10.39  | 63.19  |
| Pleural Conditions Nec  | 0.36  | 14.84  | 0.87  |
| Lower Respiratory Tract Neoplasms  | 0.04  | 2.44  | 11.18  |
| Infectious Disorders Carrier  | 0.02  | 1.96  | 3.82  |
| Occupational Parenchymal Lung Disorders  | 0.01  | 0.03  | 0.09  |
| Respiratory Tract Infections Nec  | 0.00  | 0.01  | 9.33  |
| Pleural Neoplasms  | 0.00  | 0.00  | 0.03  |
| Bacterial Lower Respiratory Tract Infections  | 0.00  | 0.67  | 0.21 |