

Table S1. ICD-9-CM diagnostic codes used in this study

ICD-9-CM section (codes)	Code	Diagnosis
Chronic Obstructive Pulmonary Disease and Allied Conditions (490–496)	490	Bronchitis, not specified as acute or chronic
	491.X	Chronic bronchitis
	492.X	Emphysema
	493.X	Asthma
	494.X	Bronchiectasis
	496	Chronic airway obstruction, not elsewhere classified
Other diseases of lung (518.8X)	518.85	Respiratory failure requiring long-term mechanical ventilation ^a
Nutritional Deficiencies (260–268.X)	260	Kwashiorkor
	261	Nutritional marasmus
	262	Other severe protein-calorie malnutrition
	263.0	Malnutrition of moderate degree
	263.2	Arrested development following protein-calorie malnutrition
	263.8	Other protein-calorie malnutrition
	263.9	Unspecified protein-calorie malnutrition
	265.X	Thiamine and niacin deficiency states
	266.X	Deficiency of B-complex components
	268.X	Vitamin D deficiency
Other ill-defined and unknown causes of morbidity and mortality (799.X)	799.0X	Asphyxia and hypoxemia
	799.1	Respiratory arrest
	799.2X	Nervousness
	799.3	Debility, unspecified
	799.4	Cachexia
	799.5X	Signs and symptoms involving cognition
	799.8X	Other ill-defined conditions
	799.9	Other unknown and unspecified causes of morbidity and mortality

ICD-9-CM, International Classification of Diseases 9th Version – Clinical Modification.

^a Definition: 1) Invasive mechanical ventilation ≥ 21 days; 2) Invasive mechanical ventilation followed by non-invasive ventilation, for total ≥ 21 days; 3) Invasive mechanical ventilation followed by negative pressure ventilation, for total ≥ 21 days; 4) Specific diseases, eg, advanced heart failure, chronic airway diseases, primary neuromuscular diseases, or chronic hypoventilation syndrome, requiring non-invasive ventilation for ≥ 21 days.