

Supplementary Table 1. Specific diagnosis for each category and number of total hospitalizations for each cause

Infectious diseases

Pneumonia (134): Pneumonia (115), Pneumonia and anemia (7), Pneumonia and sepsis (3), Pneumonia and diarrhea (3), Pneumonia and congestive heart failure (2), Pneumonia and influenza (1), Pneumonia and encephalopathy(1), Recurrent pneumonia and rhinopolypus (1), Pneumonia and lactic acidosis (1).

Respiratory infections other than pneumonia (42): Bronchitis (13), Unspecified upper respiratory infection (8), Tonsillitis (6), Pharyngitis (5), Sinusitis (2), Otitis (1), Fever and cough (2), Tachypnea or dyspnea (3), Pharynx ulcer (1), Fever and dyspnea (1).

Generalized Bacterial infections (12): Sepsis (8), Meningitis (2), Salmonellosis (1), Bacterial infection- not specified (1).

Bacterial infections of skin/soft tissue (17): Abscess (13), Impetigo (1), Pyoderma (1), Cellulites (1), Infected dermatitis (1).

Infections of digestive system (46): Diarrhea (29), Gastroenteritis (15), Food poisoning (1), Abdominal abscess (1).

Infections immunodeficiency related (OIs) (32): Tuberculosis (11), Cryptococcosis (9), *Candidiasis* (4), *Penicilliosis* (3), *Mycobacterium avium complex infection* (2), *Pneumocistisjiroveci pneumonia* (1), *Herpes Zoster infection* (1), Toxoplasmosis (1).

Other infections (34): Dengue (8), Urinary tract infection (4), Encephalitis (3), Scrub typhus (3), Influenza (2), Parotitis (2), Measles (2), Croup (1), Keratitis (1), Viral infection -not specified (1), Pyelonephritis (1), Mucocutaneous infection (1), Scarlet fever (1), Chicken pox (1), Progressive multifocal leukoencephalopathy (1), Herpangina (1), Infection-not specified (1)

Non infectious diseases

Central Nervous System diseases (4): Seizures (1), Cerebralhemorrhage (1), Cerebral atrophy (1), Cerebral vasculitis (1).

Cardiovascular diseases (15): Complete heart block (7), Congestive heart failure (3), Cardiomyopathy (2), Syncope (1), Supraventricular tachycardia (1), Atrioventricular block (1).

Liver diseases (2): Hepatitis-not infectious (2).

Digestive system diseases (24): Gastritis (8), Appendicitis (6), Abdominal pain (6), Dyspepsia (1), Elevated amylase level (1), Peritonitis (1), Ulcer (1).

Diseases of blood and blood-forming organs (43): Anemia (36), Neutropenia (3), Pancytopenia (1), Thrombocytopenia (1), Beta thalassemia (1), Pallor (1).

Metabolic diseases (6): Diabetes Mellitus (2), Hypoglycemia (1), Hypokalemia (1), Electrolyte imbalance (1), Vitamin B deficiency (1).

Accidents (8): Accidental injury (6), Fracture (1), Accidental drowning (1)

Antiretroviral drug-related events (10): Rash (4), Unspecified drug allergy (3), High lactate (1), Steven-Johnson syndrome (1), Hepatotoxicity (1).

Fever of unknown origin (4).

Immune reconstitution syndrome (1)

Obstetric/gynecological issues (3): Delivery (1), Abortion (1), Bleeding post abortion (1).

Surgery (3): Ventriculoperitoneal shunt (1), Removal of tracheostomytube (1), Breast surgery (1)

Others (9): Headache (4), Vocal cord granulation (1), Wasting (1), Epistaxis (1), Attempted suicide (1), Weakness (1)

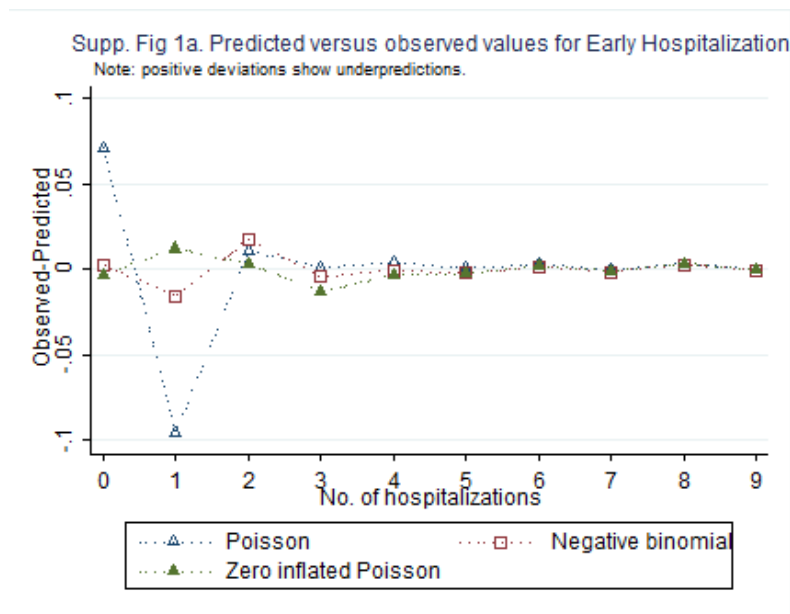
Supplementary Figures 1 (a) and (b). Regression models predicted versus observed values for early and late hospitalization.

Illustrations

Legends for illustrations

Figures 1 (a) Predicted and observed number of early hospitalizations <12 months (top). (b) Predicted and observed number of late hospitalizations ≥ 12 months (bottom).

Note: Zero inflated negative binomial model was unstable with high standard errors (data not shown) and therefore not included.



Supp. Fig 1b. Predicted versus observed values for Late Hospitalization

Note: positive deviations show underpredictions.

