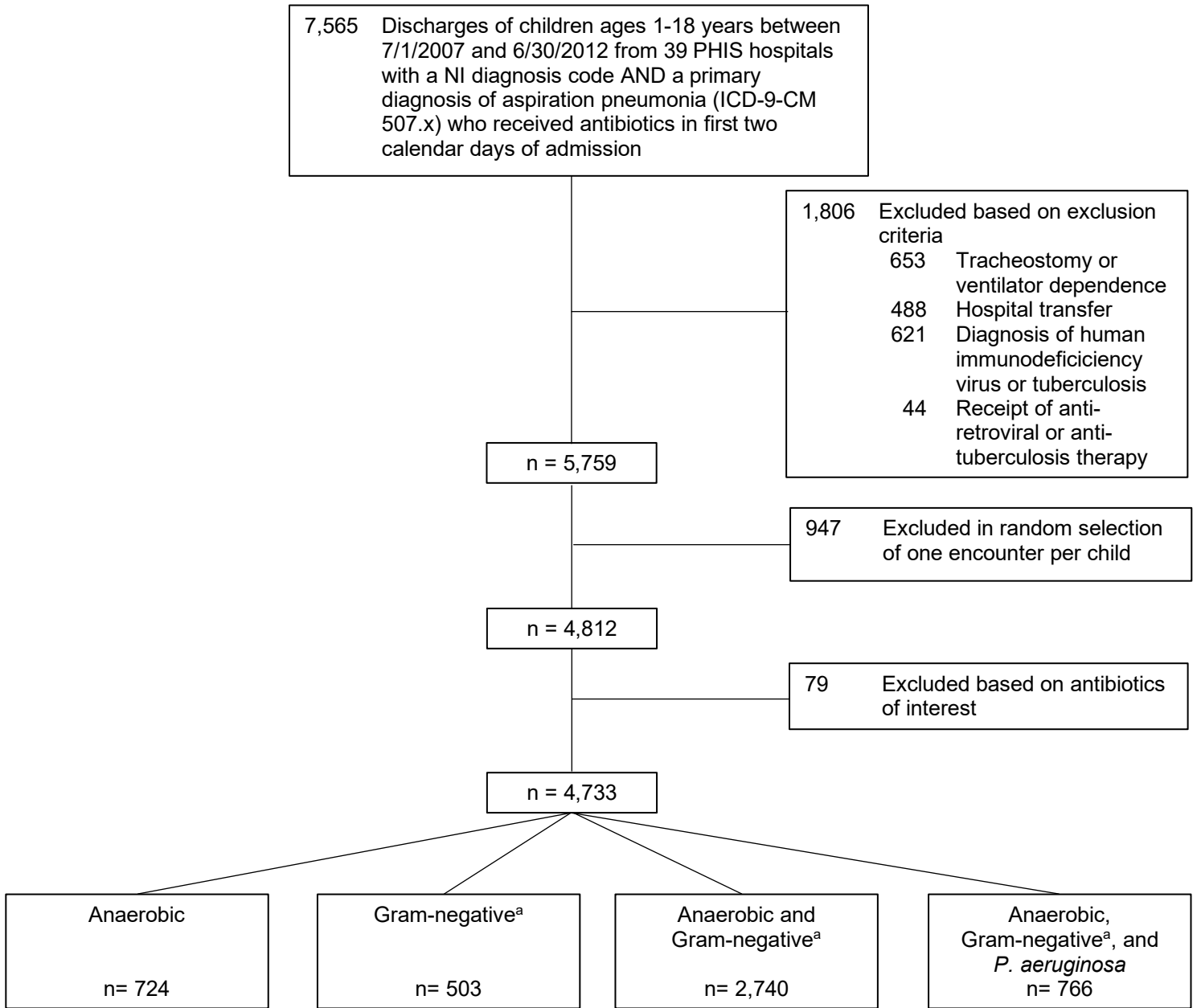


APPENDIX Figure. Cohort Diagram. Inclusion diagram for patients in study cohort

^aGram-negative denotes coverage against Gram-negative pathogens except *P. aeruginosa*



AppendixTable 1. Antibiotic classification by antimicrobial spectra of activity

Antimicrobial spectra of activity	Included antibiotics
Anaerobic Coverage	clindamycin, linezolid, metronidazole, penicillins (G and V)
Gram-negative coverage	first generation cephalosporins, second generation cephalosporins, third generation cephalosporins
Anaerobic and Gram-negative ^a	amoxicillin-clavulanate, ampicillin-sulbactam, tetracyclines, tigecycline, AND combinations of anaerobic and gram-negative coverage antibiotics as listed above
Anaerobic, Gram- negative ^a and <i>P. aeruginosa</i>	Fluoroquinolones, piperacillin-tazobactam, ticarcillin-clavulanate, carbapenems

^aGram-negative denotes coverage against Gram-negative pathogens except *P. aeruginosa*

Appendix Table 2. CTC and ICD-9 Procedure Codes Used to Define Respiratory Support Outcomes and Markers of Severe Illness

Outcome	CTC and ICD9 Codes and Descriptors	
Acute respiratory failure	521161	High frequency ventilation
	521162	Continuous pressure airway pressure (CPAP)
	521164	Bilevel positive airway pressure (BiPAP)
	521165	Noninvasive positive pressure ventilator support
	521166	Mechanical ventilation
	93.90	Noninvasive mechanical ventilation
	96.70-96.72	Continuous invasive mechanical ventilation
96.04	Insertion of endotracheal tube	
Pleural drainage	34.91	Thoracentesis
	34.04	Chest tube placement
	34.21	Video-assisted thoracoscopic surgery
	34.02, 34.09	Thoracotomy
Receipt of vasoactive agents	131111	Milrinone
	131305	Dobutamine
	131311	Dopamine
	131321	Epinephrine
	131351	Norepinephrine
Transfusion of blood products	531515	Transfusion of blood product
	99.04	Transfusion of packed red blood cells
	99.05	Transfusion of platelets
	99.06	Transfusion of coagulation factors
	99.08	Transfusion of blood expander