

Ventilator-Associated Event Data Collection Worksheet

PATIENT ID _____

		Step 1: VAC (change in A or B)		Step 2: IVAC (VAC, plus C or D, and E)			Step 3: PVAP (IVAC, plus F or G or H)							
Date	Vent Day	A.	B.	C.		D.		E.	F.	G.	H. ^e			VAE (VAC, IVAC, PVAP)
		PEEP Min	FiO ₂ Min	Temp Min [$<36^{\circ}\text{C}$]	Temp Max [$>38^{\circ}$]	WBC Min [$\leq 4\text{K}$]	WBC Max [$\geq 12\text{K}$]	QAD (✓)	Meets semi-quant or quant criteria (BAL, PSB, ETA, lung tissue cx) ^{a,b,c} (✓)	Purulent respiratory secretions ^d AND Sputum cx, or cx of BAL, ETA, PSB, lung tissue not meeting the semi-quant or quant criteria ^c (✓)	Pleural fluid (✓)	Path (✓)	Legionella or viral diagnostic (✓)	

Abbreviations: Vent = ventilator; PEEP = Positive End-Expiratory Pressure; FiO₂ = fraction of inspired oxygen; Min = daily minimum; Max = daily maximum; $\leq 4\text{K} = \leq 4,000 \text{ WBC/mm}^3$; $\geq 12\text{K} = \geq 12,000 \text{ WBC/mm}^3$; QAD = Qualifying Antimicrobial Day (see Antimicrobial Worksheet or protocol for details); cx = culture; BAL = bronchoalveolar lavage; PSB = protected specimen brush; ETA = endotracheal aspirate; qual = qualitative (non-quantitative); quant = quantitative; Path = pathology/histopathology; VAC = Ventilator-Associated Condition; IVAC = Infection-related Ventilator-Associated Complication; PVAP = Possible VAP.

^aSemi-quantitative and quantitative culture criteria apply to BAL, PSB, ETA and lung tissue cultures only (not to sputum cultures).

^bETA: quantitative threshold $\geq 10^5 \text{ CFU/ml}$ (or moderate-heavy, 2+-4+ growth); BAL: quantitative threshold $\geq 10^4 \text{ CFU/ml}$ (or moderate-heavy, 2+-4+ growth); Lung tissue: quantitative threshold $\geq 10^4 \text{ CFU/g}$ (or moderate-heavy, 2+-4+ growth); PSB: quantitative threshold $\geq 10^3 \text{ CFU/ml}$ (or moderate-heavy, 2+-4+ growth)

^cExcludes the following, when cultured from sputum, ETA, BAL, PSB: Normal respiratory/oral flora, mixed respiratory/oral flora or equivalent, *Candida* species or yeast not otherwise specified, coagulase-negative *Staphylococcus* species, *Enterococcus* species. Exclusions do not apply to cultures of lung tissue or pleural fluid.

^d ≥ 25 neutrophils per low power field [lpf, x 100] (or heavy, 4+) and ≤ 10 squamous epithelial cells per low power field [lpf, x 100] (or rare, occasional, few, 1+ or 2+)

^eAny of the following can be used to meet the PVAP definition: 1) positive pleural fluid culture where specimen was obtained during thoracentesis or initial placement of chest tube; 2) lung histopathology (see protocol for guidance); 3) positive diagnostic test for *Legionella* spp. or for the following respiratory viruses: influenza virus, respiratory syncytial virus, adenovirus, parainfluenza virus, rhinovirus, human metapneumovirus, coronavirus