

## Ventilator-Associated Event (VAE)

Page 1 of 4

\*required for saving \*\*required for completion

|   |  |         |
|---|--|---------|
| Facility ID:  | Event #:   |         |
| *Patient ID:  | Social Security #:   |         |
| Secondary ID:   | Medicare #:  |         |
| Patient Name, Last:   | First:   | Middle: |
| Gender: F M Other   | *Date of Birth:  |         |
| Sex at Birth: F M Unknown   | Gender Identity (Specify):<br>Male<br>Female<br>Male-to-female transgender<br>Female-to-male transgender<br>Identifies as non-conforming<br>Other<br>Asked but unknown   |         |
| Ethnicity:<br>Hispanic or Latino<br>Not Hispanic or Latino<br>Unknown<br>Declined to respond  | Race (Select all that apply):<br>American Indian or Alaska Native<br>Asian<br>Black or African American<br>Middle Eastern or North African<br>Native Hawaiian or Pacific Islander<br>White<br>Unknown<br>Declined to respond |         |
| Language: (Specify)   | Interpreter needed: Yes No Declined to Respond Unknown   |         |
| *Event Type: VAE  | *Date of Event:  |         |
| Post-procedure VAE: Yes No  | Date of Procedure:   |         |
| NHSN Procedure Code:  | ICD-10-PCS or CPT Procedure Code:  |         |
| *MDRO Infection Surveillance:<br><input type="checkbox"/> Yes, this infection's pathogen & location are in-plan for Infection Surveillance in the MDRO/CDI Module<br><input type="checkbox"/> No, this infection's pathogen & location are <b>not</b> in-plan for Infection Surveillance in the MDRO/CDI Module |  |         |
| *Date Admitted to Facility:   | *Location:   |         |
| * Location of Mechanical Ventilation Initiation: _____ *Date Initiated: ___ / ___ / _____ APRV: Yes No  |  |         |
| <b>Event Details</b>  |  |         |
| *Specific Event: <input type="checkbox"/> VAC <input type="checkbox"/> IVAC <input type="checkbox"/> PVAP<br>*Specify Criteria Used:  |  |         |
| <b>STEP 1: VAC (≥1 REQUIRED)</b>  |  |         |
| <input type="checkbox"/> Daily min FiO <sub>2</sub> increase ≥ 0.20 (20 points) for ≥ 2 days <sup>†</sup> <b>OR</b> <input type="checkbox"/> Daily min PEEP increase ≥ 3 cm H <sub>2</sub> O for ≥ 2 days <sup>†</sup><br><sup>†</sup> after 2+ days of stable or decreasing daily minimum values.              |  |         |
| <b>STEP 2: IVAC</b>   |  |         |
| <input type="checkbox"/> Temperature > 38°C or < 36° <b>OR</b> <input type="checkbox"/> White blood cell count ≥ 12,000 or ≤ 4,000 cells/mm <sup>3</sup><br><b>AND</b><br><input type="checkbox"/> A new antimicrobial agent(s) is started, and is continued for ≥ 4 days                                       |  |         |
| <b>STEP 3: PVAP</b>   |  |         |
| <input type="checkbox"/> Criterion #1: Positive culture of one of the following specimens, meeting quantitative or semi-quantitative thresholds as outlined in protocol, <sup>‡</sup> <u>without</u> requirement for purulent respiratory secretions:   |  |         |
| <input type="checkbox"/> Endotracheal aspirate <input type="checkbox"/> Lung tissue<br><input type="checkbox"/> Bronchoalveolar lavage <input type="checkbox"/> Protected specimen brush  |  |         |
| <b>OR</b>   |  |         |
| <input type="checkbox"/> Criterion #2: Purulent respiratory secretions <sup>‡</sup> (defined in the protocol) <u>plus</u> organism(s) identified from one of the following specimens: <sup>‡</sup>  |  |         |
| <input type="checkbox"/> Sputum <input type="checkbox"/> Lung tissue  |  |         |

- Endotracheal aspirate                       Protected specimen brush  
 Bronchoalveolar lavage

**OR**

- Criterion #3: One of the following positive tests (as outlined in the protocol):<sup>‡</sup>
- Organism(s) identified from pleural fluid                       Diagnostic test for *Legionella* species
  - Lung histopathology                       Diagnostic test for selected viral pathogens

<sup>‡</sup>collected after 2 days of mechanical ventilation and within +/- 2 days of onset of increase in FiO<sub>2</sub> or PEEP.

|   |                      |
|---|----------------------|
| *Secondary Bloodstream Infection: Yes    No | *COVID-19: Yes    No |
|---|----------------------|

|                   |                                     |
|-------------------|-------------------------------------|
| **Died: Yes    No | VAE Contributed to Death: Yes    No |
|-------------------|-------------------------------------|

|                 |   |
|-----------------|---|
| Discharge Date: | *Pathogens Identified: Yes    No    *If Yes, specify on pages 2-3 |
|-----------------|---|

Assurance of Confidentiality: The voluntarily provided information obtained in this surveillance system that would permit identification of any individual or institution is collected with a guarantee that it will be held in strict confidence, will be used only for the purposes stated, and will not otherwise be disclosed or released without the consent of the individual, or the institution in accordance with Sections 304, 306 and 308(d) of the Public Health Service Act (42 USC 242b, 242k, and 242m(d)).  
Public reporting burden of this collection of information is estimated to average 32 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. An agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to CDC, Reports Clearance Officer, 1600 Clifton Rd., MS H21-8, Atlanta, GA 30333, ATTN: PRA (0920-0666). CDC 57.112 (Front), Rev 6 v8.8

## Ventilator-Associated Event (VAE)

| Pathogen #   | Gram-positive Organisms            |                                   |                                     |   |                                       |                                     |                                     |  |
|--|------------------------------------|-----------------------------------|-------------------------------------|---|---------------------------------------|-------------------------------------|-------------------------------------|--|
| <i>Staphylococcus</i><br>coagulase-<br>negative<br><br>(specify species if<br>available):  | <b>CEFOX/IOX</b><br>SRN            | <b>VANC</b><br>SIRN               |                                     |   |                                       |                                     |                                     |  |
| ____ <i>Enterococcus</i><br><i>faecium</i><br><br>____ <i>Enterococcus</i><br><i>faecalis</i><br><br>____ <i>Enterococcus</i><br>spp. (Only those<br>not identified to<br>the species level) | <b>DAPTO</b><br>S I/S-DD NS R<br>N | <b>GENTHL<sup>s</sup></b><br>SRN  | <b>LNZ</b><br>SIRN                  | <b>VANC</b><br>SIRN                     |                                       |                                     |                                     |  |
| <i>Staphylococcus</i><br><i>aureus</i>   | <b>CEFOX/METH/IOX</b><br>SRN       | <b>CEFTAR</b><br>S S-DD I R<br>N  | <b>CIPRO/LEVO/MOXI</b><br>SIRN      | <b>CLIND</b><br>SIRN                    | <b>DAPTO</b><br>SNSN                  | <b>DOXY/MINO</b><br>SIRN            | <b>GENT</b><br>SIRN                 |  |
|  | <b>LNZ</b><br>SRN                  | <b>RIF</b><br>SIRN                | <b>TETRA</b><br>SIRN                | <b>TMZ</b><br>SIRN                      | <b>VANC</b><br>SIRN                   |                                     |                                     |  |
| Pathogen #   | Gram-negative Organisms            |                                   |                                     |   |                                       |                                     |                                     |  |
| <i>Acinetobacter</i><br>(specify species)<br><br>_____   | <b>AMK</b><br>SIRN                 | <b>AMPSU</b><br>L<br>SIRN         | <b>CEFE</b><br>P<br>SIRN            | <b>CEFTAZ/CEFOT/<br/>CEFTRX</b><br>SIRN | <b>CIPRO/<br/>LEVO</b><br>SIRN        | <b>COL/<br/>PB</b><br>SRN           | <b>DORI/<br/>MERO</b><br>SIRN       |  |
|  | <b>DOXY/<br/>MINO</b><br>SIRN      | <b>GENT</b><br>SIRN               | <b>IMI</b><br>SIRN                  | <b>PIPTAZ</b><br>SIRN                   | <b>TMZ</b><br>SIRN                    | <b>TOBRA</b><br>SIRN                |                                     |  |
| <i>Escherichia coli</i>  | <b>AMK</b><br>SIRN                 | <b>AMP</b><br>SIRN                | <b>AMPSUL/<br/>AMXCLV</b><br>SIRN   | <b>AZT</b><br>SIRN                      | <b>CEFAZ</b><br>SIRN                  | <b>CEFEP</b><br>S I/S-DD R N        | <b>CEFOT/CEFTRX</b><br>SIRN         |  |
|  | <b>CEFTA</b><br>VI<br>SRN          | <b>CEFT</b><br>AZ<br>SIRN         | <b>CEFTOTAZ</b><br>SIRN             | <b>CIPRO/LEVO/<br/>MOXI</b><br>SIRN     | <b>COL/<br/>PB<sup>†</sup></b><br>IRN | <b>DORI/IMI/<br/>MERO</b><br>SIRN   | <b>DOXY/MINO/<br/>TETRA</b><br>SIRN |  |
|  | <b>ERTA</b><br>SIRN                | <b>GENT</b><br>SIRN               | <b>IMIREL</b><br>SIRN               | <b>MERVAB</b><br>SIRN                   | <b>PIPTAZ</b><br>SIRN                 | <b>TIG</b><br>SIRN                  | <b>TMZ</b><br>SIRN                  |  |
|  | <b>TOBRA</b><br>SIRN               |                                   |                                     |   |                                       |                                     |                                     |  |
| <i>Enterobacter</i><br>(specify species)<br><br>_____  | <b>AMK</b><br>SIRN                 | <b>AZT</b><br>SIRN                | <b>CEFEP</b><br>S I/S-DD R N        | <b>CEFOT/CEFTRX</b><br>SIRN             | <b>CEFTAVI</b><br>SRN                 | <b>CEFTAZ</b><br>SIRN               | <b>CEFTOTAZ</b><br>SIRN             |  |
|  | <b>CIPRO/LEVO/MOXI</b><br>SIRN     | <b>COL/PB<sup>†</sup></b><br>IRN  | <b>DORI/IMI/MERO</b><br>SIRN        | <b>DOXY/MINO/TETRA</b><br>SIRN          | <b>ERTA</b><br>SIRN                   | <b>GENT</b><br>SIRN                 | <b>IMIREL</b><br>SIRN               |  |
|  | <b>MERVAB</b><br>SIRN              | <b>PIPTAZ</b><br>SIRN             | <b>TIG</b><br>SIRN                  | <b>TMZ</b><br>SIRN                      | <b>TOBRA</b><br>SIRN                  |                                     |                                     |  |
| ____ <i>Klebsiella</i><br><i>pneumoniae</i><br><br>____ <i>Klebsiella</i><br><i>oxytoca</i><br><br>____ <i>Klebsiella</i><br><i>aerogenes</i>  | <b>AMK</b><br>SIRN                 | <b>AMPSUL/<br/>AMXCLV</b><br>SIRN | <b>AZT</b><br>SIRN                  | <b>CEFAZ</b><br>SIRN                    | <b>CEFEP</b><br>S I/S-DD R N          | <b>CEFOT/CEFTRX</b><br>SIRN         | <b>CEFTAVI</b><br>SRN               |  |
|  | <b>CEFTA</b><br>Z<br>SIRN          | <b>CEFTOTAZ</b><br>SIRN           | <b>CIPRO/LEVO/<br/>MOXI</b><br>SIRN | <b>COL/PB<sup>†</sup></b><br>IRN        | <b>DORI/IMI/<br/>MERO</b><br>SIRN     | <b>DOXY/MINO/<br/>TETRA</b><br>SIRN | <b>ERTA</b><br>SIRN                 |  |
|  | <b>GENT</b><br>SIRN                | <b>IMIREL</b><br>SIRN             | <b>MERVAB</b><br>SIRN               | <b>PIPTAZ</b><br>SIRN                   | <b>TIG</b><br>SIRN                    | <b>TMZ</b><br>SIRN                  | <b>TOBRA</b><br>SIRN                |  |
| <i>Pseudomonas</i><br><i>aeruginosa</i>  | <b>AMK</b><br>SIRN                 | <b>AZT</b><br>SIRN                | <b>CEFEP</b><br>SIRN                | <b>CEFTAVI</b><br>SRN                   | <b>CEFTAZ</b><br>SIRN                 | <b>CEFTOTAZ</b><br>SIRN             | <b>CIPRO/LEVO</b><br>SIRN           |  |
|  | <b>COL/PB</b><br>SIRN              | <b>DORI/IMI/MERO</b><br>SIRN      | <b>GENT</b><br>SIRN                 | <b>PIPTAZ</b><br>SIRN                   | <b>TOBRA</b><br>SIRN                  |                                     |                                     |  |

| Pathogen # | Fungal Organisms                                       |                          |                         |                            |                          |                        |                   |                   |                   |                   |  |
|------------|--|--------------------------|-------------------------|----------------------------|--------------------------|------------------------|-------------------|-------------------|-------------------|-------------------|--|
|            | <i>Candida</i> (specify species if available)<br>_____ | <b>ANID</b><br>S I R N   | <b>CASPO</b><br>S I R N | <b>FLUCO</b><br>S S-DD R N | <b>MICA</b><br>S I R N   | <b>VORI</b><br>S I R N |                   |                   |                   |                   |  |
| Pathogen # | Other Organisms  |                          |                         |                            |                          |                        |                   |                   |                   |                   |  |
|            | Organism 1 (specify)<br>_____                          | <b>Drug 1</b><br>S I R N | <b>Drug2</b><br>S I R N | <b>Drug3</b><br>S I R N    | <b>Drug 4</b><br>S I R N | Drug 5<br>S I R N      | Drug 6<br>S I R N | Drug 7<br>S I R N | Drug 8<br>S I R N | Drug 9<br>S I R N |  |
|            | Organism 1 (specify)<br>_____                          | <b>Drug 1</b><br>S I R N | <b>Drug2</b><br>S I R N | <b>Drug3</b><br>S I R N    | <b>Drug 4</b><br>S I R N | Drug 5<br>S I R N      | Drug 6<br>S I R N | Drug 7<br>S I R N | Drug 8<br>S I R N | Drug 9<br>S I R N |  |
|            | Organism 1 (specify)<br>_____                          | <b>Drug 1</b><br>S I R N | <b>Drug2</b><br>S I R N | <b>Drug3</b><br>S I R N    | <b>Drug 4</b><br>S I R N | Drug 5<br>S I R N      | Drug 6<br>S I R N | Drug 7<br>S I R N | Drug 8<br>S I R N | Drug 9<br>S I R N |  |

### Result Codes

**S = Susceptible I = Intermediate R = Resistant NS = Non-susceptible S-DD = Susceptible-dose dependent  
N = Not tested**

<sup>§</sup> **GENTHL results: S = Susceptible/Synergistic and R = Resistant/Not Synergistic**

<sup>†</sup> **Clinical breakpoints are based on CLSI M100-ED30:2020, Intermediate MIC ≤ 2 and Resistant MIC ≥ 4**

| <b>Drug Codes:</b>                   |                                   |                                      |                                     |
|--------------------------------------|-----------------------------------|--------------------------------------|-------------------------------------|
| AMK = amikacin                       | CEFTAR = ceftaroline              | GENT = gentamicin                    | OX = oxacillin                      |
| AMP = ampicillin                     | CEFTAVI = ceftazidime/avibactam   | GENTHL = gentamicin –high level test | PB = polymyxin B                    |
| AMPSUL = ampicillin/sulbactam        | CEFTOTAZ = ceftolozane/tazobactam | IMI = imipenem                       | PIPTAZ = piperacillin/tazobactam    |
| AMXCLV = amoxicillin/clavulanic acid | CEFTRX = ceftriaxone              | IMIREL = imipenem/relebactam         | RIF = rifampin                      |
| ANID = anidulafungin                 | CIPRO = ciprofloxacin             | LEVO = levofloxacin                  | TETRA = tetracycline                |
| AZT = aztreonam                      | CLIND = clindamycin               | LNZ = linezolid                      | TIG = tigecycline                   |
| CASPO = caspofungin                  | COL = colistin                    | MERO = meropenem                     | TMZ = trimethoprim/sulfamethoxazole |
| CEFAZ= cefazolin                     | DAPTO = daptomycin                | MERVAB = meropenem/vaborbactam       | TOBRA = tobramycin                  |
| CEFEP = cefepime                     | DORI = doripenem                  | METH = methicillin                   | VANC = vancomycin                   |
| CEFOT = cefotaxime                   | DOXY = doxycycline                | MICA = micafungin                    | VORI = voriconazole                 |
| CEFOX= cefoxitin                     | ERTA = ertapenem                  | MINO = minocycline                   |                                     |
| CEFTAZ = ceftazidime                 | FLUCO = fluconazole               | MOXI = moxifloxacin                  |                                     |

## Ventilator-Associated Event (VAE)

Page 4 of 4

### Custom Fields

| Label |                | Label |                |
|-------|----------------|-------|----------------|
| _____ | ____/____/____ | _____ | ____/____/____ |
| _____ | _____          | _____ | _____          |
| _____ | _____          | _____ | _____          |
| _____ | _____          | _____ | _____          |
| _____ | _____          | _____ | _____          |
| _____ | _____          | _____ | _____          |
| _____ | _____          | _____ | _____          |

### Comments