NHSN VAE calculator 日本語版 操作マニュアル

一般社団法人日本環境感染学会 JHAIS委員会作成 Ver.1.0 2016年9月30日

下記のURLにアクセスしてください http://www.cdc.gov/nhsn/vae-calculator/index.html

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Centers for Disease Control and Prevention CDC 24/7: Saving Lives, Protecting PeopleTM

National Healthcare Safety Network (NHSN)

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| NHSN Login | | Ventilator-Associated I | Event Calculator (Version | on 4.0) | |
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| Enroll Here | + | Walcome to Version 4.0 of the VAE | Coloulator Version 4.0 enerator have | dunan the surrently nested | |
| Materials for Enrolled Facilities | - | is designed to help you learn how the | e VAE surveillance definition algorith | im works and assist you in m | aking VAE determinations. Please note that the VAE |
| Ambulato このペー | -ジ | が開いたらこのリ | ンクをクリック | of mechanical ventilation rt any data that you ente | n, which you can change as you see fit). The VAE er or any VAE determinations to the NHSN. You will |
| Acute Car Hospitals/Facilities | | NHSN mailbox, <u>nhsné gov</u> . | | or suggestions about the | Calculator, please feel free to send them to the |
| Long-term Acute Care Hospitals/Facilities | + | Ventilator-Associated Event (VAE) C | Calculator v4.0 (must have javascript | enabled) | |
| Long-term Care Facilities | + | e-LEARNING | NIDS NEWS | | - |
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この画面が開きます



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VAEのプロトコルやトレーニング ツールなど、VAEに関するさまざ まな資料が掲示されています。

CDC > NHSN > Materials for Enrolled Facilities

NHSN Ventilator-Associated Event (VAE) Calculator Ver. 4.0

Welcome to the Ventilator-Associated Event Calculator. Version 4.0 operates based upon the currently posted VAE protocol. It is strongly encouraged that you read and study the VAE protocol.

- The calculator recognizes PEEP values ≤ 5 and corrects entries according to the VAE protocol prior to making a VAC determination.
- . For periods of time where a patient is on APRV or a related type of mechanical ventilation for a full calendar day, a daily minimum PEEP value should not be entered into the calculator (i.e., do not enter zero)
- The calculator finds multiple VAEs per patient as long as they conform to the 14 day rule.

To get started, enter a date below that corresponds to the first day the patient was placed on mechanical ventilation during the mechanical ventilation episode of interest. You may type in a date or use the popup calendar when it appears. You may only enter dates within the past year. If the patient has been on mechanical ventilation for more than one year during the current mechnaical ventilation episode, choose a start date that is more recent but is at least 7 days before the period of interest. more...

| Mechanical Ventilation Start Date: | | (mm/dd/yyyy) |
|------------------------------------|-------------|--------------|
| | Print Close | |



National Healthcare Safety Network (NHSN)

CDC > NHSN > Materials for Enrolled Facilities

NHSN Ventilator-Associated Event (VAE) Calculator Ver. 4.0

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| | | | ? | をクリ. | ノツク | 7 | |
|------------------------------------|----|----|-------|------|-------|----------|-----|
| Mechanical Ventilation Start Date: | | | | | 😐 (mr | n/dd/yyy | ry) |
| | 0 | Se | epter | nber | 201 | 6 | 0 |
| | Su | Мо | Tu | We | Th | Fr | Sa |
| | | | | | 1 | 2 | 3 |
| | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| (2)カレンターか開くので、 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| ハエ庁吸命衣信口で迭折 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| | 25 | 26 | 27 | 28 | 29 | 30 | |

National Healthcare Safety Network (NHSN)

CDC > NHSN > Materials for Enrolled Facilities

NHSN Ventilator-Associated Event (VAE) Calculator Ver. 4.0

Now enter PEEP and/or FiO₂ values and when done, click the "Calculate VAC" button. <u>You do not need to enter data for every day</u>. Concentrate on the dates where you believe a Ventilator-Associated Event may be likely. If your values meet the Ventilator-Associated Condition (VAC) definition, the event day will be identified and the VAE Window will be defined.

画面が切り替わり、人 工呼吸器装着日を起 点日とする強制換気日 (MV Day)リストが表示 されます。

| | Calcu | | TUJPE | EP. |
|--------|-----------|-----------------------------------|-------------------------------------|------|
| MV Day | Date | Min. PEEP (cmH ₂ O) | Min. FiO ₂ (20 - 100) | Y \E |
| 1 | 9/5/2016 | | | |
| 2 | 9/6/2016 | | | |
| 3 | 9/7/2016 | | | |
| 4 | 9/8/2016 | | | |
| 5 | 9/9/2016 | | | |
| 6 | 9/10/2016 | | | |
| 7 | 9/11/2016 | | | |
| 8 | 9/12/2016 | | | |
| 9 | 9/13/2016 | | | |
| 10 | 9/14/2016 | | | |
| 11 | 9/15/2016 | | | |
| 12 | 9/16/2016 | | | |

| | | | Na | ntior | al Healthcare Safety Network | (NHSN) | | | | | | |
|----------|-------------|-----------------------------------|-------------------------------------|-----------------|--|-----------------|---------------|----------------------|-----------------------|-------|------------|-----------------|
| o最但 | しても | FiO2量 | 曼低値 | <u>sn</u> | > Materials for Enrolled Facilities | | | | | | | |
| を. のポ | 入力し ミタンを | ったら をクッ | リク | \ lat | entilator-Associated Event (VAE) or-Associated Condition (VAC) based on PEEP values | | or Ver. 4 | .0 | " | ́Ехр | lain"す | ドタンを押すと |
| | | / | Clic | :k on tl | e Go To IVAC button to move to the next part of the | protocol or cli | ck on the "Ex | oplain" butto | n to see h | この | よりに 説明: | が表示される |
| | Calculate V | AC St | tart Over | | C | alculate VAC | Start | Over | Go to IVAC | Exp | olain | |
| MV Day | Date | Min. PEEP (cmH ₂ O) | Min. FiO ₂ (20 - 100) | VAE | - | MV Day | Date | Min. PEEP | Min. FiO ₂ | VAE | | |
| 1 | 9/5/2016 | 10 | 60 | | | | | (cmH ₂ O) | (20 - 100) | | | |
| 2 | 9/6/2016 | 5 | 40 | | | 1 | 9/5/2016 | 10 | 60 | | | ウインドウ期間1 |
| 3 | 9/7/2016 | 5 | 40 | | | 2 | 9/6/2016 | 5 | 40 | | | |
| 4 | 9/8/2016 | 8 | 60 | | | † 3 | 9/7/2016 | 5 | 40 | | | ■オレノン巴に |
| 5 | 9/9/2016 | 8 | 50 | | | † 4 | 9/8/2016 | 8 | 60 | ‡ VAC | | "VAC"に該当す |
| 6 | 9/10/2016 | 7 | 40 | | | † 5 | 9/9/2016 | 8 | 50 | | | イベントがあれ |
| 7 | 9/11/2016 | 5 | 40 | | 画面が切り | † 6 | 9/10/2016 | 7 | 40 | | | サムノキニナム |
| 8 | 9/12/2016 | 5 | 40 | | 替わります | 7 | 9/11/2016 | 5 | 40 | | | 男 巴 く 衣 示 さ ん ・ |
| 9 | 9/13/2016 | | | | | 8 | 9/12/2016 | 5 | 40 | | | |
| 10 | 9/14/2016 | | | | | 9 | 9/13/2016 | | | | | |
| 11 | 9/15/2016 | | | | | 10 | 9/14/2016 | | | | | |
| 12 | 9/16/2016 | | | | | 11 | 9/15/2016 | | | | | |
| | ,, 10, 2010 | | | | | 12 | 9/16/2016 | | | | | |

さらにIVACの判定に進む場合は このボタンをクッリク

Ventilator-Associated Event (VAE) Calculator Ver. 4.0

hat a VAC determination has been made, enter yes (check) or no (leave box unchecked) if the patient has had a temperature > 38° C or < 36° C or a WBC \geq 12,000 cells/mm³ or \leq 4,000 m³ within the VAE Window Period. Choose a drug from the drop down list and <u>check all the corresponding days shown on the screen</u> that the agent was administered. If more than one drug was given over the course of treatment, click on the "Add..." button in the drug column header and do the same. Once all data have been entered, <u>click the "Calculate IVAC" button</u>.

| alculate | VAC | Start | Over | Go to IVAC | Ex | plain | | | | | Start Over | Calcu | ulate IVAC | Explain | | | |
|----------|--------|-----------|-----------------------------------|-------------------------------------|-------|-----------|------|--------|-----------|----------------------|-------------------------------|-------|-------------------|--------------------------------|---------------|----------------|-----|
| M | /Day [| Date | Min. PEEP (cmH ₂ O) | Min. FiO ₂ (20 - 100) | VAE | | | MV Day | Date | Hide Min. PEEP | Hide Min. FiO ₂ | VAE | T<36° or T>38° | WBC ≤ 4,000 or WBC ≥ 12,000 | | Add Remove | QAD |
| 1 | 9 | 9/5/2016 | 10 | 60 | | _ | | | | (cmH ₂ O) | (20 - 100) | | | cells/mm ³ | | Choose a Drug: | |
| 2 | 9 | 9/6/2016 | 5 | 40 |) | | | | | | | | | | Choose a Drug | ~ | |
| † 3 | 9 | 9/7/2016 | 5 | 40 | | | | 1 | 9/5/2016 | 10 | 60 | 1 | | | | | |
| † 4 | 9 | 9/8/2016 | 8 | 60 | ‡ VAC | | | 2 | 9/6/2016 | 5 | 40 | - | | | | | |
| † 5 | 9 | 9/9/2016 | 8 | 50 | | | | + 3 | 9/7/2016 | 5 | 40 | | | | | | |
| † 6 | 9 | 9/10/2016 | 7 | 40 | | | | + 4 | 9/8/2016 | 8 | 60 | t VAC | | | | | |
| 7 | 9 | 9/11/2016 | 5 | 40 | | | | + 5 | 9/9/2016 | 8 | 50 | | | | | | |
| 8 | 9 | 9/12/2016 | 5 | 40 | | 画面 | が切り | + 6 | 9/10/2016 | 7 | 40 | | | | | | |
| 9 | 9 | 9/13/2016 | | |) | 麸と | います | 7 | 9/10/2010 | - | 40 | | | | | | |
| 10 | 9 | 9/14/2016 | | |] | H1 | 1707 | , | 9/11/2018 | - | 40 | - | 1 | | | | ;; |
| 11 | 5 | 9/15/2016 | | |] | _ | | 8 | 9/12/2016 | 5 | 40 | 87 | (1) | (f) | | | - |
| 12 | 9 | 9/16/2016 | | | | | | 9 | 9/13/2016 | | | | | | | | - |
| | | | | | | | | 10 | 9/14/2016 | | | | | | | | |

Legend: +-VAE Window +-VAE Date ¶-Qualifying Antimicrobial Day (QAD)

| | | | "Explair どのよう のか説 | n″ボタン うにVAC 明が表 | ンを押 が判断 示され | すと 新され いる | ıt: | Explain | | クリフトにまデナれる期間山 |
|--------|--------------------------|--------------------------|-------------------------|-----------------------|-------------------|-----------------|-------------------|--------------------------------|-----|----------------------|
| MV Day | Date | Hide | Min. | Hide | Min. | VAE | 1<36° or T>38° | WBC ≤ 4,000 or WBC ≥ 12.000 | | に使用された抗菌薬を選択 |
| | | ウイント | ドウ期間 | 中に、 | 36度 | | | cells/mm ³ | | se a Drug: |
| | 未 | 満の低 | 体温か | 38度を | 超え | | | | IMI | PENEM/CILASTATIN |
| 1 | るう ^{9/5/} チュ | 発烈が [®] ∟ックを | 観祭され | れた日 | 12 | | | | | |
| 2 | 9/6/2016 | 5 | | 40 | | | | | | |
| † 3 | 9/7/2016 | 5 | | 40 | | | | | | |
| † 4 | 9/8/2016 | 8 | | 60 | | ‡ VAC | | | | ④上記で選択した抗菌薬について |
| † 5 | 9/9/2016 | 8 | | 50 | | | | | | 投与した日にチェックを入れる |
| †6 | 9/10/201 | う よ イ | いに亡せ | 8問山 | - 100 | | | | | |
| 7 | 9/11/201 | とうち | しくは1 | 2000と | <u>、</u> 400 |)0 '1 | | | | |
| 8 | 9/12/201 | 血球数 | の検体 | が採り | \overline{y} | - | | | | |
| 9 | 9/13/201 | 日にチ | エックを | 入れる | 5 | | | | | |
| 10 | 9/14/2016 | | | | | | | | | |

Legend: +-VAE Window +-VAE Date ¶-Qualifying Antimicrobial Day (QAD)

| | | | | Star | rt Over | Calculate | IVAC Exp | olain | |
|--------|------------------------|--------------------------------------|--------|--|--------------------------|-----------------------------|------------------------------------|-----------------------|--|
| MV Day | Date | Hide PEEP (cmH ₂ O) | . Min. | Hide FiO ₂ (20 - 100) | Min. | VAE | 6° or WBC ≤4 WBC ≥1 cells/mm | ,000 or 2,000 3 | Add Remove Choose a Drug: |
| 1 2 | 9/5/2 9/6/2 | 必 | 要事 | 耳の こ(|)入: のボ | 」 カが [、] タン? | すべて をクリ | C完了し ック | たら |
| † 3 | 9/7/2 <mark>016</mark> | 5 | | 40 | | | | | |
| † 4 | 9/8/2016 | 8 | | 60 | | ‡ VAC | | | |
| † 5 | 9/9/2016 | 8 | | 50 | | | | | NHSN Ventilator-Associated Event AF) Calculator Ver. 4.0 |
| † 6 | 9/10/2016 | 5 7 | | 40 | | | | | |
| 7 | 9/11/2016 | 5 | | 40 | | | | | An IVAC was found for this patient. Click on the patient of the definition or click on the "Explain" button for an explanation of how this determination was |
| 8 | 9/12/2016 | 5 | | 40 | | | | | made. |
| 9 | 9/13/2016 | 5 | | | | | | | |
| 10 | 9/14/2016 | 5 | | | | | | | Start Over Calculate IVAC Explain Go to PVAP |
| | | | Legen | d: +-VAE W | /indow <mark>‡-</mark> ' | VAE Date ¶ | - Qualifying Ant | imicrobial Day (QAD) | MV Day Date Hide Min. Hide Min. VAE T<36° or WBC ≤ 4,000 or Add QAD |

| MV Day | Date | Hide PEEP (cmH ₂ O) | Min. | Hide FiO ₂ (20 - 100) | Min. | VAE | T<36° or T>38° | WBC ≤ 4,000 or WBC ≥ 12,000 cells/mm ³ | | Add Remove Choose a Drug: | QAD |
|--------|-----------|--------------------------------------|------|--|------|-------------|-------------------|---|---------------------|---------------------------------|-------|
| | | | | | | | | | IMIPENEM/CILASTATIN | ~ | |
| 1 | 9/5/2016 | 10 | | 60 | | | | | | | |
| 2 | 9/6/2016 | 5 | | 40 | | | | | | | |
| † 3 | 9/7/2016 | 5 | | 40 | | | | | | | |
| † 4 | 9/8/2016 | 8 | | 60 | | ‡ IVAC | | | | | ¶ yes |
| † 5 | 9/9/2016 | 8 | | 50 | | | Q | | | | ¶ yes |
| † 6 | 9/10/2016 | 7 | | 40 | | | | | | | ¶ yes |
| 7 | 9/11/2016 | 5 | | 40 | | | | | M | | ¶ yes |
| 8 | | イベ | こと | <u> </u> | | <i>"</i> [= | 該 | 当して | いれば | | ¶ yes |
| 9 | | | = = | - <u> </u> | | | - Гл | | ~ 7 | | ¶ yes |
| 10 | | | 衣刀 | \ 7)\'' | TVA(| | _IJ | り谷れ | る | | |
| | | | | | | | | | | | |

Legend: +-VAE Window +-VAE Date ¶-Qualifying Antimicrobial Day (QAD)

NHSN Ventilator-Associated Event (V

An IVAC was found for this patient. Click on the "Go To P made.

さらに"PVAP"の診断に進む場合は このボタンをクッリク

Start Over Calculate IVAC

Explain... Go to PVAP

| MV Day | Date | Hide PEEP (cmH ₂ O) | Min. | Hide FiO ₂ (20 - 100) | Min. | VAE | T<36° or T>38° | WBC \leq 4,000 or WBC \geq 12,000 cells/mm ³ | | Add Remove | QAD |
|--------|-----------|--------------------------------------|------|--|------|--------|-------------------|---|---------------------|---------------|-------|
| | | | | | | | | | IMIPENEM/CILASTATIN | | |
| 1 | 9/5/2016 | 10 | | 60 | | | | | | | |
| 2 | 9/6/2016 | 5 | | 40 | | | | | | | |
| † 3 | 9/7/2016 | 5 | | 40 | | | | | | | |
| † 4 | 9/8/2016 | 8 | | 60 | | ‡ IVAC | | | | | ¶ yes |
| † 5 | 9/9/2016 | 8 | | 50 | | | | | | | ¶ yes |
| † 6 | 9/10/2016 | 7 | | 40 | | | | | | | ¶ yes |
| 7 | 9/11/2016 | 5 | | 40 | | | | | Y | | ¶ yes |
| 8 | 9/12/2016 | 5 | | 40 | | | | | Y | | ¶ yes |
| 9 | 9/13/2016 | | | | | | | | | | ¶ yes |
| 10 | 9/14/2016 | | | | | | | | | | |

Legend: +-VAE Window +-VAE Date - Qualifying Antimicrobial Day (QAD)

以下のようなウインドウが開くので、該当する定義にチェックを入れて下部の"Calculate PVAP"ボタンをクリック

| National H | lealt | hcare S | afety N | letwor | PVAP Determination | |
|--|--|--|--|--------------|---|---|
| <u>CDC</u> > NHSN > Materials for Enrolled Facilities NHSN Ventilator-Associated Event (VA) | | | | | For the IVAC on <u>9/8/2016</u> , did the patient have documentation of any of the following findings during the VAE Window: <u>9/7/2016 to 9/10/2016</u> . | |
| Now that an IVA PVAP" button. | ℃ detern | nination has | been made, | click the ch | Question Yes Criterion 1. Positive culture of one of the following (without requirement for purulent respiratory secretions): • • Endotracheal aspirate ≥ 10 ⁵ cfu/ml* • • Bronchoalveolar lavage ≥ 10 ⁴ cfu/ml* • • Lung tissue ≥ 10 ⁴ cfu/ml* • • Protected specimen brush ≥ 10 ³ cfu/ml* | he VAE Window (shaded area). Then click on the "C ①該当する項目に チェックを入れる |
| N 1 2 1 1 1 1 1 1 1 | MV Day L 2 3 4 5 5 6 | Date 9/5/2016 9/6/2016 9/7/2016 9/8/2016 9/9/2016 9/9/2016 | Hide PEEP (cmH ₂ O) 10 5 5 8 8 8 7 | Min. | *or corresponding semi-quantitative result Criterion 2. Positive culture of one of the following (qualitative or quantitative/semi-quantitative culture without sufficient growth to meet Criterion 1). • Sputum • Endotracheal aspirate • Bronchoalveolar lavage • Lung tissue • Protected specimen brush AND Evidence of purulent respiratory secretions (defined as secretions from lungs, bronchi or trachea that contain ≥ 25 neutrophils and ≤ 10 squamous epithelial cells). | Add QAD Remove Choose a Drug: PENEM/CILASTATIN Image: Comparison of the second |
| 7 8 9 1 | 7 3 9 10 | 9/11/2016 9/12/2016 9/13/2016 9/14/2016 | 5 | Leger | Criterion 3. One of the following positive tests (as outlined in the protocol): Pleural fluid culture Lung histopathology Diagnostic test for <i>Legionella</i> species Diagnostic test for influenza virus, respiratory syncytial virus, adenovirus, parainfluenza virus, rhinovirus, human metapneumovirus or coronavirus. | Ti yes Ti yes Ti yes |
| | | | | | Calculate PVAP | |

以下のようなウインドウが開くので、該当する定義にチェックを入れて下部の"Calculate PVAP"ボタンをクリック

| ISN Ven | tilator | -Associa | ted Eve | ent (VA | the VAE Window: <u>9/7/2016 to 9/10/2016</u> . | | | | |
|---|---------|-----------|--------------------------------------|--------------|---|-----|---|---------------------------------|-------|
| Now that an IVAC determination has been made, click the cl PVAP" button. | | | | click the cł | Question Criterion 1. Positive culture of one of the following (without requirement for purulent respiratory secretions): • Endotracheal aspirate ≥ 10 ⁵ cfu/ml* • Bronchoalveolar lavage ≥ 10 ⁴ cfu/ml* • Lung tissue ≥ 10 ⁴ cfu/ml* • Protected specimen brush ≥ 10 ³ cfu/ml* | Yes | :he VAE Window (shaded area). Then click on f | | |
| | MV Day | Date | Hide PEEP (cmH ₂ O) | Min. | *or corresponding semi-quantitative result Criterion 2. Positive culture of one of the following (qualitative or quantitative/semi-quantitative culture without sufficient growth to meet Criterion 1). • Sputum | | PENEM/CILASTATIN | Add Remove Choose a Drug: | QAD |
| | 1 | 9/5/2016 | 10 | | Endotracheal aspirate Bronchoalveolar lavage | | | | |
| | 2 | 9/6/2016 | 5 | | Lung tissue | | | | |
| | † 3 | 9/7/2016 | 5 | | Protected specimen brush | | | | |
| | † 4 | 9/8/2016 | 8 | | AND Evidence of purulent respiratory secretions (defined as secretions | | | | ¶ yes |
| | † 5 | 9/9/2016 | 8 | | from lungs, bronchi or trachea that contain \geq 25 neutrophils and \leq | | | | ¶ yes |
| | + 6 | 9/10/2016 | 7 | | 10 squamous epithelial cells). | | | | T VAS |

上記の定義を確認し、該当箇所にチェックを入れたら このボタンをクッリク



NHSN Ventilator-Associated Event (VAE) Calculator Ver. 4.0

The event on 9/8/2016 conforms to a Possible Ventilator-Associated Pneumonia (PVAP) definition. For a discussion of why, click on the Explain button.

| | | | | s | Start Over Explain | | | Go to PVAP | | | | |
|--------|-----------|--------------------------------------|------|--|--------------------|--------|-------------------|---|---------------------|---------------------------------|-------|--|
| MV Day | Date | Hide PEEP (cmH ₂ O) | Min. | Hide FiO ₂ (20 - 100) | Min. | VAE | T<36° or T>38° | WBC≤4,000 or WBC≥12,000 cells/mm ³ | IMIPENEM/CILASTATIN | Add Remove Choose a Drug: | QAD | |
| 1 | 9/5/2016 | 10 | | 60 | | | | | | | | |
| 2 | 9/6/2016 | 5 | | 40 | | | | | | | | |
| † 3 | 9/7/2016 | 5 | | 40 | | | | | | | | |
| † 4 | 9/8/2016 | 8 | | 60 | | ‡ PVAP | | | | | ¶ yes | |
| † 5 | 9/9/2016 | 8 | | 50 | | | <u>ন্</u> | | | | ¶ yes | |
| † 6 | 9/10/2016 | 7 | | 40 | | | | | | | ¶ yes | |
| 7 | 9/11/2016 | 5 | イベ | ントが | ^{\$} "PVA | C" こ | 該当 | していオ | ιば | | ¶ yes | |
| 8 | 9/12/2016 | 5 | 表示力 | ^م "IVA | C"か | 6″Р\ | VAC" | に切り <u>替</u> | わる | | ¶ yes | |
| 9 | 9/13/2016 | | | | | | | | | | ¶ yes | |
| 10 | 9/14/2016 | | | | | | | | | | | |

Legend: +-VAE Window +-VAE Date ¶-Qualifying Antimicrobial Day (QAD)



Close